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Number: 70-480
Passing Score: 800
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TEST KING

70-480

Programming in HTML5 with JavaScript and CSS3

- Best stuff I have ever used for my exam preparation. I love Examcollection guys.
- This dump is definitely correct.
- Wow this looks like the new VCE file. Unbelievable that it had just been released, and now the questions are already available here
- Got this vce from my friend who passed with 98% , each and every stuff in it. I am sharing with you guys.
- More than 80% questions are from this dump :).

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Exam A

QUESTION 1
You are creating a JavaScript function that displays the name of a web application.

You declare the following button element.

<input type="button" id= "About" value="About" />

When a user clicks the button, a JavaScript function named About must be called.

You need to create an event handler that calls the About function when the button is clicked.

Which two code segments can you use? (Each correct answer presents a complete solution. Choose two.)

A.
```
var button = document.getElementById("About");
ScriptEngine.call(button, About());
```

B.
```
var button = document.getElementById("About");
ScriptEngine.bind(button, About());
```

C.
```
var button = document.getElementById("About");
button.addEventListener("click", About);
```

D.
```
var button = document.getElementById("About");
button.attachEvent("onclick", About);
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: CD
Section: (none)

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Explanation

Explanation/Reference:
Reference:
http://help.dottoro.com/ljeuqqoq.php
http://help.dottoro.com/ljinxrmt.php

QUESTION 2
You need to test the value of the following variable in JavaScript.
var length = "75";

A block of code must execute if the length equals 75 regardless of the data type.

You need to use the statement that meets this requirement.

Which lines of code should you use? (Each correct answer presents a complete solution. Choose two.)

A. if (length = = = 75)
B. if (length = = 75)
C. if (length! = 75)
D. if (length = = "75")

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Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3
You are developing an application that uses a third-party JavaScript library named doWork().

The library occasionally throws an "object is null or undefined" error with an error code of -2146823281.

The application must:
Extract and handle the exceptions thrown by doWork() Continue normal program execution if other exceptions occur

You need to implement the requirements.

Which code segment should you use?

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A.
```
if (doWork() == -2146823281) {
  ...
}
```

B.
```
if (doWork() == "object is null or undefined") {
  ...
}
```

C.
```
try {
  doWork();
} catch(e) {
  if (e.number == -2146823281)
    ...
}
```

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D.
```
try {
  doWork();
} catch(e) {
  if (e.message == -2146823281)
    ...
}
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 4
You are developing an HTML5 page. The page includes the following code.

```
<p id="outer" style="position:relative">
  <p id ="inner"></p>
</p>
```

The inner paragraph must be exactly 15 pixels from the top left corner of the outer paragraph. You set the left style for the inner paragraph to the appropriate value.

You need to set the position property of the inner paragraph.

Which value should you use?

A. absolute
B. static
C. fixed
D. relative

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Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/cssref/pr_class_position.asp

QUESTION 5
You are developing a customer web form that includes the following HTML input field.

<input id="txtValue"/>

If a customer enters a value in the input field, then it must be a numeric value.

You need to add validation to the input field.

Which HTML should you use?

A. <input id="txtValue" type-"text" pattern="/#" />

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B. <input id="txtValue" type="number" />
C. <input id="txtVa!ue" type="integer" />
D. <input id="txtValue" type="text" required="required"/>

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/html/html5_form_input_types.asp

QUESTION 6
You are developing a customer web form that includes the following HTML.

<input id="txtValue"/>

You need to change the HTML markup so that customers can enter only a valid three-letter country code.

Which HTML should you use?

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A. <input id="txtValue" type="code" />
B. <input id="txtValue" type="text" pattern=" [A-Za-z] {3}" />
C. <input id="txtValue" type="text" required="required"/>
D. <input id="txtValue" type="country" />

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/html5/att_input_pattern.asp

QUESTION 7
You are developing a web form that includes the following HTML.

<input id="txtValue" type="text" />

You need to ensure that a value is entered into txtValue before the form is submitted.

Which code segment should you use?

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A.
```
function validate() {
  var name = $("#txtValue").val();
    if (name == null || name == "")
      alert("please enter valid value");
      return;
}
```

B.
```
function validate() {
  var value = $("#txtValue").val();
  var regex = /^[\d\,\.]*$/;
  if (!regex.test(value))
    alert("please enter valid value");
  return;
}
```

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C.
```
function validate() {
  var name = $("#txtValue").get();
    if (name == null || name == "")
      alert("please enter valid value");
      return;
 }
```

D.
```
function validate() {
  var value = $("#txtValue").get();
  var regex = /^[A-Za-z]{3}/;
  if (!regex.test(value) || value == "")
    alert("please enter valid value");
  return;
}
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
You are creating a class named Sedan that must inherit from the Car class. The Sedan class must modify the inherited fourDoor () method. The Car class is defined as follows.

```
function Car() {}
Car.prototype.fourDoor = function (){
  alert('four doors');
}
```

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Future instances of Sedan must be created with the overridden method.

You need to write the code to implement the Sedan class.

Which two code segments should you use? (Each correct answer presents part of the solution.
Choose two.)

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A.
```
Sedan.fourDoor = function ()
{
  alert('door count');
}
```

B.
```
Sedan.prototype.fourDoor = function ()
{
  alert('door count');
}
```

C.
```
function Sedan()
{
  Car.call(this);
}
Sedan.prototype = new Car();
Sedan.prototype.constructor = Sedan;
```

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D.
```
function Sedan()
{
  Car.call(this);
}
Sedan.prototype.constructor = Sedan.create;
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: BC
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 9
You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability.

Which tag should you use?

A. <nav>
B. <article>
C.
D.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/tags/tag_article.asp
http://www.w3schools.com/html/html5_new_elements.asp

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QUESTION 10
You are developing application web form by using HTML5 and JavaScript.

You need to prevent users from submitting form data more than once.

Which code segment should you use?

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A.
```
<body>
  <input id="btnSubmit" type="button" value="Submit" onclick="disable(this)" />
  <input id="btnCancel" type="button" value="Submit" onclick="disable(this)" />
  <script>
    function disable(ctrl) {
      ctrl.disabled = true;
    }
  </script>
</body>
```

B.
```
<body>
  <input id="btnSubmit" type="button" value="Submit" onclick="disable()" />
  <input id="btnCancel" type="button" value="Submit" onclick="disable()" />
  <script>
    function disable() {
      this.disabled = true;
    }
  </script>
</body>
```

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C.
```
<body>
  <input id="btnSubmit" type="button" value="Submit" onclick="disable()" />
  <input id="btnCancel" type="button" value="Submit" onclick="disable()" />
  <script>
    function disable() {
      document.getElementById("btn" + this.name).disabled = true;
    }
  </script>
</body>
```

D.
```
<body>
  <input id="btnSubmit" type="button" value="Submit" onclick="disable(me)" />
  <input id="btnCancel" type="button" value="Submit" onclick="disable(me)" />
  <script>
    function disable(ctrl) {
      ctrl.disabled = true;
```

ıns

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
You are developing an HTML5 web application for a surveyor company that displays topographic images.

The application must:
Display the topographic images at different zoom levels without loss of detail
Print the topographic images without loss of detail Work from only one source file for each topographic image

You need to ensure that the topographic images display according to the requirements.

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Which HTML5 element should you use?

A. SVG
B. CANVAS
C. SAMP
D. AREA

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
answer is great.

QUESTION 12
You implement an application by using HTML5 and JavaScript. You create a webpage that contains the following HTML:

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```
<!DOCTYPE html>
<html>
<head>
  <link href="site.css" rel="stylesheet" type="text/css" />
  <script type="text/javascript" src="jquery.js"></script>
</head>
<body>
  <div id="container">
    <ul>
      <li>First List Item
        <ul>
          <li>Child List Item</li>
        </ul>
      </li>
      <li>Second List Item</li>
      <li>Third List Item</li>
      <li>Fourth List Item</li>
    </ul>
    <p>Some interesting information that we need to display.</p>
    <p>More information that is important to this page.</p>
  </div>
</body>
</html>
```

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The application must place a border on only the first UL element that is contained in the DIV element.

You need to update the webpage.

What should you do?

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A. Add the following SCRIPT element after the DIV element:

```
<script>
  $("div").each(function () {
    $("ul").each(function (index, domEle) {
      $(domEle).css("border", "1px solid black");
    });
  });
</script>
```

B. Add the following SCRIPT element after the DIV element:

```
<script>
  $("div#container > ul").css("border", "1px solid black");
</script>
```

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C. Add the following SCRIPT element after the DIV element:

```
<script>
  $("ul:first-of-type").css("border", "1px solid black");
</script>
```

D. Add the following style to the site.css file:

```
.container > ul {
    border: 1px solid black;
}
```

A. Option A
B. Option B
C. Option C
D. Option D

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Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13
You troubleshoot a webpage that contains the following HTML element:

<canvas id= "clickCanvas" width="300"> height= "300">Your browser does not support the HTML5 canvas.</canvas>
The following JavaScript code is included in a script tag in the HEAD section of the webpage:
(Line numbers are included for reference only.)

```
01  var canvas;
02  var context;
03  window.onload = function initialize() {
04    canvas = document.getElementById('clickCanvas');
05    context = canvas.getContext('2d');
06    drawBox();
07
08  }
09  function clickReporter(e) {
10    alert('clicked');
11  }
12  function drawBox() {
13    context.fillStyle = 'black';
14    context.strokeRect(20, 20, canvas.width - 20, canvas.height - 20);
15  }
```

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You need to invoke the clickReporter() JavaScript function when a user clicks the mouse on the canvas HTML element.

What should you do?

A. Add the following attribute to the canvas HTML element:
clicked= "clickReporter()"
B. Replace the code segment at line 06 with the following code segment:
drawBox.Click += clickReporter;
C. Insert the following code segment at line 07:
canvas.onclick = clickReporter;
D. Insert the following code segment at line 07:

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canvas, click = clickReporter;

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
You are implementing an application by using HTML5 and JavaScript. A web page contains the following HTML table.

```
<table id="dataTable">
  <tbody>
    <tr><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
    <tr><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
    <tr><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
  </tbody>
  <tfoot>
    <tr class="selected"><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
  </tfoot>
</table>
```

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The application must:
Identify all rows in the table body that have a class attribute of selected Exclude the last selected row in the table

You need to implement the web page according to the requirements.

Which CSS selector should you use?

A. tr:not(tr:last-child).selected < #dataTable
B. #dataTable > tr.selected:not(tr:last-child)
C. #dataTable tbody tr.selected:not(tr:last-child)

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D. #dataTable tr.selected:not(tr:last-child)

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15
You create an application that sends information to a web service by using the following code:
(Line numbers are included for reference only.)

```
01 function CustomError(code) {
02   this.errorCode = code;
03 }
04
05 var code = send();
06 if (code != 0) {
07   throw new CustomError(code);
08 }
```

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When the web service returns a non-zero result code, you must raise an exception that contains the result code.

You need to implement the code that generates the exception.

Which line of code should you insert at line 04?

A. CustomError .prototype = Error.prototype;
B. CustomError ["ErrorType"] = Error;
C. CustomError.customError = true;
D. Error-constructor = CustomError;

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16

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You are developing a customer web form that includes following HTML.

<input id= "textAccountType"/>

You need to develop the form so that customers can enter only a valid account type consisting of two English alphabet characters.

Which code segment should you use?

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A.
```
function validate() {
  var value = $("#txtAccountType").text();
    if (value == null || value == "")
      alert("please enter valid account type");
      return;
 }
```

B.
```
function validate() {
  var value = $("#txtAccountType").val();
  var regex = /^[A-Za-z]{2}$/;
  if (!regex.test(value ) || value == "")
    alert("please enter valid account type");
  return;
}
```

C.
```
function validate() {
  var value = $("#txtAccountType").val();
    if (value == null || value == "")
      alert("please enter valid account type");
      return;
}
```

D.
```
function validate() {
  var value = $("#txtAccountType").text();
  var regex = /^[A-Za-z]{2}$/;
  if (!regex.test(value ) || value == "")
    alert("please enter valid account type");
  return;
}
```

A. Option A
B. Option B
C. Option C
D. Option D

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Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17
You are developing an application that uses a JavaScript library. The library contains the following functions.

```
function ValidationException(number, message) {
  this.message = message;
  this.name = "myLibrary Validation Exception";
  this.number = number;
}

function LogicException(number, message) {
  this.message = message;
  this.name = "myLibrary Logic Exception";
  this.number = number;
}

function myFunction(dayOfWeek) {
  if (dayOfWeek > 7) {
    throw new ValidationException(123, "Day of week must be less than 7");
}
}
```

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The application uses the following code. (Line numbers are included for reference only.)

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```
01 function doWork(value) {
02   try {
03     myFunction(value)
04   } catch (e) {
05
06   }
07 }
```

The library may throw many types of exceptions. The exceptions are grouped by category.

You need to catch and identify the exceptions by group.

Which code segment should you insert at line 05?

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A.
```
if (typeof (e) == "ValidationException") {
  handleValidationException (e.message);
} else if (typeof (e) == "LogicException") {
  handleLogicException (e.message);
} else {
  throw e;
}
```

B.
```
if (e instanceof ValidationException) {
  handleValidationException(e.message);
} else if (e instanceof LogicException) {
  handleLogicException (e.message);
} else {
  throw e;
}
```

C.
```
switch (e) {
  case ValidationException:
    handleValidationException (e.message);
    break;
  case LogicException:
    handleLogicException (e.message);
    break;
  default:
    throw e;
}
```

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D.
```
if (e.message == "ValidationException") {
  handleValidationException (e.message);
} else if (e.message == "LogicException") {
  handleLogicException (e.message);
} else {
  throw e;
}
```

A. Option A
B. Option B

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C. Option C
D. Option D

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18
An HTML page contains no embedded JavaScript or CSS code. The body of the page contains only the following line of code.

test

A CSS style sheet must be applied dynamically. The style must visibly change the appearance of the paragraph on the page.
You need to apply a style the paragraph.

Which line of code should you use?

A. document.getElementById("test").style.border = "0";
B. document.getElementById("test").style.position = "static";
C. document.getElementById ("test").style.padding = "15px";
D. document.getElementById("test").style.top = "5px";

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Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
A: The border shorthand property sets all the border properties in one declaration.

The properties that can be set, are (in order): border-width, border-style, and border-color.

It does not matter if one of the values above are missing, e.g. border:solid #ff0000; is allowed.

QUESTION 19
You develop an HTML5 web application. The web application contains a form that allows users to enter only their month of birth.

The value that the users enter must be numbers between 1 and 12, inclusive.

You need to implement the form element for the month of birth.

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Which element should you use?

A. <input type="time" options="month" />
B. <input types="submit" value="month" />
C. <input type="range" min="1" max="12" />
D. <input type="month" itemscope="numeric" />

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Example:
</head>
<body>
<input type="range" name="rangeInput" min="0" max="100" onchange="updateTextInput(this.value);">
<input type="text" id="textInput" value="">
</body>
</html>

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QUESTION 20
You are developing an HTML5 web application for an architectural company that displays architectural blueprints.

The application must:
Display the blueprints at different zoom levels without loss of detail Print the blueprints without loss of detail
Work from only one source file per blueprint

You need to ensure that blueprints display according to the requirements.

Which HTML5 element should you use?

A. CANVAS
B. SAMP
C. SVG
D. AREA

Correct Answer: C
Section: (none)
Explanation

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Explanation/Reference:
corrected.

QUESTION 21
You develop an HTML5 application that allows users to upload files from their local computers. The user interface must remain responsive during the upload.

You need to implement the file upload functionality for the application.

Which two actions should you perform? (Each correct answer presents a complete solution.
Choose two.)

A. Use an HTML form with a file type INPUT element that targets a hidden IFRAME element.
B. Use a file type INPUT element, and then use the Web Storage API to upload the file.
C. Use a FormData object and upload the file by using XMLHttpRequest.
D. Register the file protocol by using protocol handler registration API and then upload the file by using XMLHttpRequest.
E. Use the FileSystem API to load the file, and then use the jQuery post method to upload the file to the server.

Correct Answer: BD
Section: (none)
Explanation

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Explanation/Reference:
B: Example (notice the web storage api upload.aspx):

```
<!DOCTYPE html>
<html>
<head>
<title>Upload Files using XMLHttpRequest - Minimal</title> </head>
<body>
<form id="form1" enctype="multipart/form-data" method="post" action="Upload.aspx">
<div class="row">
<label for="fileToUpload">Select a File to Upload</label><br /> <input type="file" name="fileToUpload" id="fileToUpload" onchange="fileSelected();"/>
</div>
<div id="fileName"></div>
<div id="fileSize"></div>
<div id="fileType"></div>
<div class="row">
<input type="button" onclick="uploadFile()" value="Upload" /> </div>
<div id="progressNumber"></div>
</form>
</body>
</html>
```

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D:
* Because we're using XMLHttpRequest, the uploading is happening in the background. The page the user is on remains intact. Which is a nice feature to have if your business process can work with it.
* The XMLHttpRequest object has gotten a facelift in the Html5 specifications. Specifically the XMLHttpRequest Level 2 specification (currently the latest version) that has included the following new features:

Handling of byte streams such as File, Blob and FormData objects for uploading and downloading
Progress events during uploading and downloading
Cross-origin requests
Allow making anonymous request - that is not send HTTP Referer The ability to set a Timeout for the Request

QUESTION 22
You are developing a web application that can function when users are not connected to the Internet.

You need to check the Internet connectivity status of a user's browser.

Which method should you use?

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A.
```
function checkConnection()
{
  if (navigator.isOnline) {
    ...
  }
 }
```

B
```
function checkConnection()
{
  if (browser.isOnline) {
    ...
  }
  else
  {
    ...
  }
}
```

C.
```
function checkConnection()
{
  if (browser.online) {
    ...
  }
  else
  {
    ...
  }
}
```

D.
```
function checkConnection()
{
  if (navigator.online) {
    ...
  }
  else
  {
    ...
  }
}
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
You are creating a page that contains detailed employee information for a company portal. The page uses a jQuery library. The page contains a hidden button named btnEdit that is defined by the following code.

<button id="btnEdit" style="display: none;n>Edit</button>

The button is not displayed by default.

The button must be displayed only if the user is logged on.

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You need to add code to the document.ready() function to meet the requirements for the button.

Which line of code should you use?

A. $ (‘#btnEdit’).appear ();
B. $ (‘#btnEdit’).visible = true;
C. $ (‘#btnEdit’).show();
D. $ (‘#btnEdit’).Visible();

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
answer is updated.

QUESTION 24
You are developing an application that analyzes population data for major cities in the United States. The application retrieves population statistics for a

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city by using a web service.

You need to request data from the web service by using jQuery.

Which code segment should you use?

A.
```
$.ajax({
  url: "Services/WSAjax.asmx/GetPopulationCity?city='Boston'",
  dataType: "text", type: "POST"
});
```

B.
```
$.ajax({
  url: "Services/WSAjax.asmx/GetPopulationCity",
  dataType: "text", type: "SEND", data: { city: "Boston" }
});
```

C.
```
$.ajax({
  url: "Services/WSAjax.asmx/GetPopulationCity?city='Boston'",
  dataType: "text", type: "SEND"
});
```

D.
```
$.ajax({
  url: "Services/WSAjax.asmx/GetPopulationCity",
  dataType: "text", type: "POST", data: { city: "Boston" }
});
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 25
You are developing a blog web page that is being optimized for accessibility. The page includes the following HTML.

```
<body>

   <h1>Blog Post Title</h1>
   <h2>Subtitle</h2>
   <h3>Authors Byline</h3>

</body>
```

The heading tags represent a blog post title, a blog post subtitle, and the author's name. You need to ensure that the three headings are treated as a unit but retain their individual formatting.

Which tags should you use to wrap the H1, H2, and H3 elements?

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A. <group> </group>
B. <header> </header>
C. <hgroup> </hgroup>
D. <headings> </headings>

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
You develop a web application by using jQuery. You develop the following jQuery code: (Line numbers are included for reference only.)

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```
01  <script>
02    $(document).ready(function () {
03      $('#submit').click(function () {
04        $.ajax({
05
06          data: $('#myForm').serialize(),
07          success: function (result) {
08            $('#result').text(result.message);
09          }
10        });
11      });
12    });
13  </script>
```

The web application exposes a RESTful web API that has an endpoint of/product/create.

You need to create a new product by using AJAX.

Which code segment should you insert at line 05?

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A.
```
type: "POST",
dataType: "xml",
contentType: "application/x-www-form-urlencoded; charset=UTF-8",
url: "/product/create",
```

B.
```
type: "GET",
dataType: "xml",
contentType: "application/x-www-form-urlencoded; charset=UTF-8",
url: "/product/create",
```

C.
```
type: "POST",
dataType: "json",
contentType: "application/json",
url: "/product/create/post",
```

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D.
```
type: "POST",
dataType: "json",
url: "/product/create",
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 27
You develop a webpage that allows a user to download a 3PEG image and convert it to a PNG file.

You need to implement the code to download the contents of the JPEG image with no additional decoding.

Which JavaScript function should you use?

A. readAsBinaryString()
B. readAsArrayBuffer()
C. readAsDataURL()
D. readAsText()

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 28
You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability.

Which tag should you use?

A. <article>
B.
C. <tbody>
D. <cd>

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
How the Changes in HTML 5 Will Affect SEO (Search Engine Optimization)?

As a SEO expert, you are most likely interested mainly in those changes in the HTML 5 specification, which will affect your work. Here is one of them:

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A new <article> tag. The new <article> tag is probably the best addition from a SEO point of view. The <article> tag allows to mark separate entries in an online publication, such as a blog or a magazine. It is expected that when articles are marked with the <article> tag, this will make the HTML code cleaner because it will reduce the need to use tags. Also, probably search engines will put more weight on the text inside the <article> tag as compared to the contents on the other parts of the page.

QUESTION 29
You develop an HTML application that contains a table that displays a list of products. The table is defined with the following HTML markup:

```
<table>
  <thead>
    <tr>
      <th>Product</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Adjustable Race</td>
    </tr>
    <tr>
      <td>Blade</td>
    </tr>
    <tr>
      <td>Chainring</td>
    </tr>
    <tr>
      <td>Down Tube</td>
    </tr>
  </tbody>
</table>
```

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You must style the table to look like the following image:

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Product
Adjustable Race
Blade
Chainring
Down Tube

You need to implement the CSS selectors to select the rows that must have a blue background.
Which CSS selector should you use?

A. thead:only-child, tbody:after, table:before
B. tr [line |-0, 1, 3]
C. tr:first-of-type, tr:last-of-type
D. tr:first-line, tr:last-child

Correct Answer: B
Section: (none)
Explanation

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Explanation/Reference:
Header (line 0), first line and third line.

QUESTION 30
You develop a webpage by using HTML5. You create the following markup:

<input type "url" name= "website" required="required" />

You need to ensure that the value that the user enters contains a secure URL.

What should you do?

A. Add the following attribute to the input tag: value="https://v
B. Add the following attribute to the input tag: pattern="https://.+"
C. Add the following attribute to the input tag: value="ssl"
D. Add the following attribute to the input tag: itemtype="https"

Correct Answer: B

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Section: (none)
Explanation

Explanation/Reference:
Note:
* The pattern attribute is supported in Internet Explorer 10, Firefox, Opera, and Chrome.

* The pattern attribute specifies a regular expression that the <input> element's value is checked against.

* The pattern attribute works with the following input types: text, search, url, tel, email, and password

QUESTION 31
You develop a webpage by using HTML5. You create the following markup and code: (Line numbers are included for reference only.)

```
01  <head>
02    <script>
03      function removeInvalid(input) {
04
05      }
06    </script>
07  </head>
08  <body>
09    Given Name: <input type="text" id="GivenName" onblur="removeInvalid(this);" />
10    Surname: <input type="text" id="Surname" onblur="removeInvalid(this);" />
11  </body>
```

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You need to ensure that the values that users enter are only numbers, letters, and underscores, regardless of the order.

Which code segment should you insert at line 04?

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A.
```
if (!/^[A-Za-z0-9_]+$/.test(input.value))
  input.value = "Invalid";
```

B.
```
if (!/[^A-Za-z0-9_]/.test(input.value))
  input.value = "Invalid";
```

C.
```
var regEx = new RegExp("^\w");
if (!input.value.match(regEx))
  input.value = "Invalid";
```

D.
```
var regEx = "[\w\d]";
if (!input.value.match(regEx))
  input.value = "Invalid";
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Example:
Sometimes situations arise when user should fill a single or more than one fields with alphabet characters (A-Z or a-z) in a HTML form. You can write a JavaScript form validation script to check whether the required field(s) in the HTML form contains only letters. - See more at: http://www.w3resource.com/javascript/form/all-letters-field.php#sthash.5Db50Bdm.dpuf

Javascript function to check for all letters in a field view plainprint?

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```
function allLetter(inputtxt)
{
var letters = /^[A-Za-z]+$/;
if(inputtxt.value.match(letters))
{
return true;
}
else
{
alert("message");
return false;
}
}
```

To get a string contains only letters (both uppercase or lowercase) we use a regular expression (/^[A-Za-z]+$/) which allows only letters. Next the match () method of string object is used to match the said regular expression against the input value. Here is the complete web document.
- See more at: http://www.w3resource.com/javascript/form/all-letters- field.php#sthash.5Db50Bdm.dpuf

QUESTION 32
You are creating an HTML5 application that allows users to play video on a page by using the VIDEO element.

You need to enable the user to start, stop, and pause the video.

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Which line of code should you add to the page?

A. <video id= "myVideo" height="320" width="400" src="myVideo.vtt" contextmenu="pauseplay"> </video>
B. <video id="myVideon heigh"="320" width="400" src="myVideo.vtt" controls> </video>
C. <video _d="myVideon height="320" width="400" src="myVideo.vtt" autoplay> </video>
D. <video id="myVideo" height="320" width="400" src="myVideo.vtt" contextinenu="Startstopn> </video>

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33
You are creating a web page that contains a canvas with text.

The page contains the following JavaScript code. (Line numbers are included for reference only.)

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```
01 var canvas = document.getElementById('myCanvas');
02 var context = canvas.getContext('2d');
03
```

The text on the canvas must rotate 90 degrees when a user clicks a button on the page.

You need to ensure that the text rotates when the user clicks the button.
Which line of code should you add at line 03?

A. context.transform(90);
B. context.content.getRotation(90);
C. context.rotate(90);
D. context.content.rotate (90);

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
exact.

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QUESTION 34
You develop an HTML5 webpage that contains the following HTML markup:

```
<label for="loanTypes">Loan Types</label>
<select name="loanTypes" id="loanTypes" multiple="multiple">
  <option>Secured</option>
  <option selected="selected">Unsecured</option>
  <option>Demand</option>
  <option selected="selected">Subsidized</option>
</select>
```

You have the following requirements:
Retrieve the content for any OPTION elements when the value of the selected attribute equals selected.
Add the content to a comma separated string.

You need to retrieve the required data.

Which two code segments should you add to the webpage? (Each correct answer presents a complete solution. Choose two.)

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A.
```
$("select option:checked").each(function () {
  selectedValues += $(loanTypes).text() + ',';
});
```

B.
```
$("select option:selected").each(function () {
  selectedValues += $(loanTypes).text() + ',';
});
```

C.
```
$("select option:selected").each(function () {
  selectedValues += $(this).text() + ',';
});
```

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D.
```
$("#loanTypes option:selected").each(function () {
  selectedValues += $(this).text() + ',';
});
```

E.
```
$("#loanTypes option:checked").each(function () {
  selectedValues += $(loanTypes).text() + ',';
});
```

A. Option A
B. Option B
C. Option C
D. Option D
E. Option E

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Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:
Note:
* select option:selected
:selected Selector
Description: Selects all elements that are selected.

QUESTION 35
You develop an HTML5 application. You give users a numeric access code that can be used only one time.

Users must enter the numeric access code in the login form of the application. The numeric characters must be hidden by a masking character.

You need to implement the form element for users to enter the code.

Which HTML element should you use?

A. <input type="password" required autocomplete="off">
B. <input type="input" autocomplete="off" required />
C. <input type="password" stytem" visiblity:hidden;" required />
D. <input type="button" value="password" required />

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Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
You are developing an HTML5 web application that displays stock information.

The application loads information from a web service by using AJAX.

The following code defines a Stock object and loads stock data.

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```
function Stock(symbol) {
  this.symbol = symbol;
  this.low = 0;
  this.high = 0;
}

Stock.prototype.parseStock = function (data) {
  this.low = data.low;
  this.high = data.high;
}

Stock.prototype.loadStock = function () {

}
```

You need to implement the loadStock function.

Which code segment should you use?

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A.
```
var stock = this;
$.get('data.xml', function (data) {
  stock.parseStock(data);
});
```

B.
```
$.get('data.xml', function (data, innerScope) {
  innerScope.parseStock(data);
});
```

C.
```
$.get('data.xml', function (data) {
  this.parseStock(data);
});
```

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D.
```
$.get('data.xml', function (data) {
  (function (scope) {
    scope.parseStock(data);
  })(data);
});
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 37
You are developing a web page that includes the following HTML.

 Hello There!

The font color of text inside the span must be red.

You need to develop the web page to meet the requirement.

Which two CSS segments will achieve the goal? (Each correct answer presents a complete solution. Choose two.)

A.
```
.redText
{
  color: red;
}
```

B.
```
.myTextSpan
{
  color: red;
}
```

C.
```
span#myTextSpan
{
  color: red;
}
```

D.
```
#redText
{
  color: red;
}
```

A. Option A
B. Option B

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C. Option C
D. Option D

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:
Topic 4, Volume D

QUESTION 38
You are troubleshooting an application.

Users report that the UI is slow to respond.

You need to improve UI responsiveness by moving application tasks to web workers.

Which two tasks can you move to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

A. A function that loops through the Document Object Model to update the style of page elements
B. A long-running calculation that requires looping through an array
C. A function that performs graphic-intensive animation
D. A function that stores large amounts of data to local storage

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Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:
Note:
* Despite the improvements in JavaScript engines, it is not uncommon for users to encounter frozen user interfaces as the browser works through resource intensive tasks. This leads to a horrible user experience. The purpose of Web Workers is to give developers a way of instructing the browser to process large tasks in the background; therefore preventing the UI from freezing up.

* The Web Workers specification defines an API for spawning background scripts in your web application. Web Workers allow you to do things like fire up long-running scripts to handle computationally intensive tasks, but without blocking the UI or other scripts to handle user interactions

QUESTION 39
You develop an interactive scalable vector graphic (SVG) application.

You write the following code (Line numbers are included for reference only.):

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```
01  <script>
02
03  </script>
04  <svg height="150" width="150" id="myGraphic">
05    <circle cx="25" r="20" cy="20" fill="orange" id="myCircle"/>
06  </svg>
07  <button id="zoom" onclick="zoomIn();">Zoom In</button>
```

You need to increase the size of the circle by 50 percent.

Which code segment should you insert at line 02?

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A.
```
function zoomIn() {
  var myGraphic = document.getElementById("myGraphic");
  myGraphic.createSVGTransform(1.5);
}
```

B.
```
function zoomIn() {
  var myGraphic = document.getElementById("myGraphic");
  myGraphic.setAttribute("currentScale", 1.5);
}
```

C.
```
function zoomIn() {
  var myCircle = document.getElementById("myCircle");
  myCircle.setAttribute("currentScale", 1.5);
}
```

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D.
```
function zoomIn() {
  var myCircle = document.getElementById("myCircle");
  myCircle.r = myCircle.r * 1.5;
}
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 40
You develop an HTML5 webpage. You have the following HTML markup:

```
<label for="personname">Given and Surname:</label>
<input type="text" name="personname" /><br />

<label for="businessname">Business Name:</label>
<input type="text" name="businessname" /><br />

<label for="emailaddress">Email Address:</label>
<input type="text" name="emailaddress" />
```

You need to change the background color for all of the elements whose name attribute ends with the word name.

Which code segment should you add to the webpage?

A. $ ('input [name!="name"]') .css ({ 'background-color' : ' #E0ECF8'}) ;
B. ${'input [name="~name"] ') .css ({ 'background-color' : ' #E0ECF8' }) ;
C. ${'input[name="*name"]').css({'background=color': #E0ECF8'});
D. $('input [name="$name"] ') .css ({ 'background-color' : '#E0ECF8'});

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Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
The string pattern "*name" matches all strings that ends with name.

QUESTION 41
You develop an HTML application that is located at www.adventure-works.com.

The application must load JSON data from www.fabrikam.com.

You need to choose an approach for loading the data.

What should you do?

A. Design a REST URI scheme with multiple domains.

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B. Configure Cross-Origin Resource Sharing (CORS) on the servers.
C. Load the data by using WebSockets.
D. Use the jQuery getJSON method.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
* You must use Cross Origin Resource Sharing
It's not as complicated as it sounds...simply set your request headers appropriately...in Python it would look like:

self.response.headers.add_header('Access-Control-Allow-Origin', '*'); self.response.headers.add_header('Access-Control-Allow-Methods', 'GET, POST, OPTIONS');
self.response.headers.add_header('Access-Control-Allow-Headers', 'X-Requested-With'); self.response.headers.add_header('Access-Control-Max-Age', '86400');

* Cross-origin resource sharing (CORS) is a mechanism that allows Javascript on a web page to make XMLHttpRequests to another domain, not the domain the Javascript originated from.[1] Such "cross-domain" requests would otherwise be forbidden by web browsers, per the same origin security policy. CORS defines a way in which the browser and the server can interact to determine whether or not to allow the cross-origin request.[2] It is more powerful than only allowing same-origin requests, but it is more secure than simply allowing all such cross-origin requests.

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QUESTION 42
You are building a web page for a newspaper publisher.

You have the following requirements:
The web page should split the content into columns that are at least 100 pixels wide.
The number of columns displayed must be set by the browser.

You need to implement the correct CSS properties.

Which line of code should you use?

A. ...
B. ...
C. . . .
D. ...

Correct Answer: C
Section: (none)
Explanation

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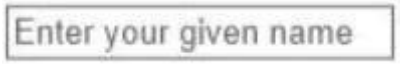
Explanation/Reference:
appropriate answer.

QUESTION 43
You develop a webpage with a standard input control by using HTML5.

The input control must display the text Enter your given name, as shown below:



When a user selects the input control, the text must disappear.

You need to create the input control.

Which input control should you use?

A. <input name="GivenName" value=" Enter your given name" />
B. <input name ="GivenName" default=" Enter your given name" />
C. <input name="GivenName" text=" Enter your given name" />
D. <input name="GivenName" placeholder=" Enter your given name" />

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Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44
You develop an HTML5 webpage. You have the following HTML markup:

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```
<section id="news">
  <h1>World News</h1>
  <article id="news1">...</article>
  <article id="news2">...</article>
  <article id="news3">...</article>
</section>
<section id="sports">
  <h1>Sports</h1>
  <article id="sports1">...</article>
  <article id="sports2">...</article>
  <article id="sports3">...</article>
</section>
```

You need to add a background color to the first article in each section.

Which code segment should you add to the webpage?

A. $ ("section article:first-child").css("background-color", "#f2f2f2");
B. $ ("section:first-child").css ("background-color", "#f2f2f2");
C. $ ("article:first-of-type") .css("background-color", "#f2f2f2");
D. $ ("section:first-of-type").css("background-color", "#f2f2f2");

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45
You are creating a custom object as described by the following code.

```
function square(side) {
  this.side = side;
  this.area = calcArea;
}
```

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You need to implement the calcArea method.

Which code should you use?

A.
```
function calcArea () {
   return me.side * me.side;
}
```

B.
```
function calcArea (obj) {
   return obj.side * obj.side;
}
```

C.
```
function calcArea () {
   return side * side;
}
```

D.
```
function calcArea () {
   return this.side * this.side;
}
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46
You are developing an HTML5 web form to collect feedback information from site visitors.

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The web form must display an INPUT element that meets the following requirements:
Allow numeric values between 1 and 10.
Default to the value of 5.
Display as a slider control on the page.

You need to add the INPUT element to the form.

Which HTML element should you add?

A. Rating (Between 1 and 10): <input type="number" name="rating" min ="1" max-"10">
B. Rating (Between 1 and 10): <input type="number" name="rating" min="1" max="10" default="5">
C. Rating (Between 1 and 10): <input type="range" name="rating" min="1" max="10" default"="5">
D. Rating (Between 1 and 10): <input type="range" name="rating" min="10" max="10" value="5">

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
input type="range"
The <input type="range"> is used for input fields that should contain a value within a range.

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Depending on browser support, the input field can be displayed as a slider control.
Example

<form>
<input type="range" name="points" min="0" max="10"> </form>

QUESTION 47
You develop an HTML5 application. The application uses an image that is returned from an HTTP POST request.

You develop the following code: (Line numbers are included for reference only.)

```
01  var xhr = new XMLHttpRequest();
02  xhr.open('POST', '/Images/heroAccent.png', true);
03  var img = document.createElement('img');
04
05  xhr.send();
```

You need to display the loaded image in the application.

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Which code segment should you insert at line 04?

A.
```
xhr.responseType = 'blob';
xhr.onload = function (e) {
  if (this.status == 200) {
    img.src = window.URL.createObjectURL(this.responseText);
    document.body.appendChild(img);
  }
};
```

B.
```
xhr.responseType = 'blob';
xhr.onload = function(e) {
  if (this.status == 200) {
    img.src = window.URL.createObjectURL(this.response);
    document.body.appendChild(img);
  }
};
```

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C.
```
xhr.responseType = 'document';
xhr.onload = function (e) {
  if (this.status == 200) {
    img.src = window.URL.createObjectURL(this.responseText);
    document.body.appendChild(img);
  }
};
```

D.
```
xhr.responseType = 'document';
xhr.onload = function (e) {
  if (this.status == 200) {
    img.src = window.URL.createObjectURL(this.response);
    document.body.appendChild(img);
  }
};
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 48
You develop an HTML5 webpage that contains the following HTML markup:
<input id="loanTermTextBox" type="text" />

Users must enter a valid integer value into the text box.

You need to validate the data type that is received from the input element.

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Which two code segments should you include on the webpage? (Each correct answer presents a complete solution. Choose two.)

A. Option A
B. Option B
C. Option C
D. Option D
E. Option E

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 49
You develop an HTML5 application for a company. Employees must enter a personal identification number (PIN) in an INPUT element named SecurityCode to access their employee records.

The SecurityCode element must meet the following requirements:

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Allow up to 6 digits.
Do not display numbers as they are entered.
Display the text Enter PIN Code before the user enters any data.

You need to implement the SecurityCode element.

Which HTML markup should you add to the application?

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A.
```
<input name="SecurityCode"
  type="text"
  maxlength="6"
  title="Enter PIN Code"
  pattern="**********"
/>
```

B.
```
<input
  name="SecurityCode"
  type="text"
  maxlength="6"
  title="Enter PIN Code"
  pattern="**********"
/>
```

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C.
```
<input
  name="SecurityCode"
  type="password"
  size="6"
  placeholder="Enter PIN Code"
  pattern="**********"
/>
```

D.
```
<input name="SecurityCode"
  type="password"
  maxlength="6"
  placeholder="Enter PIN Code"
/>
```

E.
```
<input name="SecurityCode"
  type="password"
  maxlength="6"
  value="Enter PIN Code"
```

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A. Option A
B. Option B
C. Option C
D. Option D
E. Option E

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
* The isNaN() function determines whether a value is an illegal number (Not-a-Number).

This function returns true if the value is NaN, and false if not.

* JavaScript Form Validation

JavaScript can be used to validate data in HTML forms before sending off the content to a server.

Form data that typically are checked by a JavaScript could be:

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has the user left required fields empty?

has the user entered a valid e-mail address?

has the user entered a valid date?

has the user entered text in a numeric field?

* document.getElementByID

Returns a reference to the element by its ID.

Syntax

element = document.getElementById(id);

where

element is a reference to an Element object, or null if an element with the specified ID is not in the document.

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id is a case-sensitive string representing the unique ID of the element being sought.

* The getElementsByName() method accesses all elements with the specified name. Gets a collection of objects based on the value of the NAME or ID attribute.
Syntax
document.getElementsByName(name)

QUESTION 50
You develop an application to host user-generated HTML and JavaScript content.

A common error handler in your application must process all unhandled errors.

You need to implement global error handling for the application.
Which code segment should you use?

A.
```
window.onerror = function () {
    ...
}
```

B.
```
Error.constructor = function () {
    ...
}
```

C.
```
Error = function () {
    ...
}
```

D.
```
document.onerror = function () {
    ...
}
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 51
You are creating a custom function. You pass an object named testObj to the function as a parameter. You do not use inheritance through the functions.

The function must establish whether testObj inherits from another object named parentObj.

You need to ensure that the function performs as required.

Which method or operator should you add to the function?

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A. parentObj.instanceof(testObj)
B. testObj.isPrototypeOf(parentObj)
C. testObj.instanceof(parentObj)
D. parentObj.isPrototypeOf(testObj)

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 52
You develop an HTML5 webpage. You have the following HTML markup:

```
Total Products: <span id="products"></span><br />
Total Boxes: <span id="boxes"></span><br />
<input type="button" id="addOneItem" value="Add one item to the order" />
<input type="button" id="addBoxOfItems" value="Add a box to the order" />
```

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You need to call the click event for the addOneItem button a determined number of times when the user clicks the addBoxOfItems button.

Which code segment should you add to the webpage?

A.
```
$('#addBoxOfItems').on(function (event) {
  for (var i = 0; i < itemsPerBox; i++) {
    $('#addOneItem').trigger('click');
  }
});
```

B.
```
$('#addBoxOfItems').click(function (event) {
  for (var i = 0; i < itemsPerBox; i++) {
    $('#addOneItem').click('click');
  }
});
```

C.
```
$('#addBoxOfItems').on(function (event) {
  for (var i = 0; i < itemsPerBox; i++) {
    $('#addOneItem').click();
  }
});
```

D.
```
$('#addBoxOfItems').click(function (event) {
  for (var i = 0; i < itemsPerBox; i++) {
    $('#addOneItem').trigger('click');
  }
});
```

A. Option A
B. Option B
C. Option C
D. Option D

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Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 53
You develop an HTML application that is located at www.adventure-works.com. The application must load JSON data from www.fabrikam.com.

You need to choose an approach for loading the data.

What should you do?

A. Add a crossdomain.xml file to the second server.
B. Configure Cross-Origin Resource Sharing (CORS) on the servers.
C. Load the data in a JavaScript timeout callback.
D. Reference the remote data as an XML resource.

Correct Answer: B
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 54
You are creating a blog site by using HTML5 and JavaScript. An inline frame enables users to post comments. It is possible for users to inject malicious scripts into their comments.

You need to minimize the ability for malicious scripts to execute on the site.

Which line of code should you use?

A. <iframe sandbox src="frame1.htmlnX/iframe>
B. <iframe seamless="allowscripts" src="frame1.html"<>/iframe>
C. <iframe seamless src="frame1.html"></iframe>
D. <iframe sandbox="allowscripts" src"frame1.html"x/iframe>

Correct Answer: A
Section: (none)

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Explanation

Explanation/Reference:

QUESTION 55
You develop an HTML5 application that interacts with a REST service. The REST service accepts JSON data. A JavaScript object named form Data contains data that is sent to the REST service.

You need to convert the JavaScript object named formData into JSON.

Which code segment should you use?

A. jQuery.ajax.valueOf(formData);
B. window.evai(formData);
C. JSON.stringify (formData);
D. formData.toString();

Correct Answer: C
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 56
You are developing an HTML page that includes the following code.

<h1 id="header">A Static Page</hl>

You need to modify the content of the HI element dynamically by using JavaScript.
Which code segment should you use?

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A.
```
var myHeader = document.getElementsByTagName("header");
myHeader = "A Dynamic Page";
```

B.
```
var myHeader = document.getElementById("header");
myHeader = "A Dynamic Page";
```

C.
```
var myHeader = document.getElementsByTagName("header");
myHeader.innerHTML = "A Dynamic Page";
```

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D.
```
var myHeader = document.getElementById("header");
myHeader.innerHTML = "A Dynamic Page";
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 57
You are developing a web page that will contain an animated logo. The web page currently has a logo image on a canvas object.

You need to spin the logo image on the canvas.
Which method should you use?

A. context.rotate()
B. context.spin()
C. context.translatePosition()
D. context.setTransform()

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 58
You are developing a web page that includes the following HTML.

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Hello, World!</Span>

You need to use inline CSS styling to format the text with Arial font.

Which code segment should you use?

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A.
```
<style>
  .myStyle
  {
    font-style: Arial;
  }
</style>
```

B.
```
<span id="myTextSpan" class="myStyle" style="font-family: Arial">Hello, World!</span>
```

C.
```
<span id="myTextSpan" class="myStyle" style="font-style: Arial">Hello, World!</span>
```

D.
```
<style>
  .myStyle
  {
    font-family: Arial;
  }
</style>
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 59
You create the following JavaScript code:

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```
var myApplication = myApplication || {};
myApplication.Vehicle = function (displayControl, color, seatCount, tranType, wheelCount) {
  this.Color = color;
  this.NumberOfSeats = seatCount;
  this.TransmissionType = tranType;
  this.NumberOfWheels = wheelCount;
  this.showVehicle = document.getElementById(displayControl);
};
myApplication.Vehicle.prototype = {
  Describe: function () {
    var valuesToDisplay = '';
    for (var property in this) {
      if (typeof (this[property]) === 'string')
      {
        valuesToDisplay += 'Vehicle ' + property + ' is ' + this[property] + '<br />';
      }
      else if(typeof (this[property]) === 'number')
      {
        if (this[property] < 4)
        {
          valuesToDisplay += 'Stay safe!' + '<br />';
        }
        else if(this[property] >= 10)
        {
          valuesToDisplay += 'Big machine!' + '<br />';
        }
      }
    }
    this.showVehicle.innerHTML = valuesToDisplay;
  }
};
```

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You have the following requirements:
You must invoke a function that displays the vehicle information within the following HTML element: <div id="display"x/div>
The output of the function must appear on the webpage as follows:

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Vehicle Color is silver
Stay safe!
Vehicle TransmissionType is manual
Big machine!

You need to invoke the JavaScript function to display the required output in the HTML element.

Which two code segments should you use? (Each correct answer presents a complete solution.
Choose two.)

A.
```
var mySportsCar = new myApplication.Vehicle('display', 'manual', 4, 'silver', 4);
mySportsCar.Describe();
```

B.
```
var myDumpTruck = new myApplication.Vehicle('display', 'silver', 10, 'manual', 2);
myDumpTruck.Describe();
```

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C.
```
var myBigRig = new myApplication.Vehicle('display', 'silver', 2, 'manual', 16);
myBigRig.Describe();
```

D.
```
var myMotorcycle = new myApplication.Vehicle('display', 'blue', 2, 'manual', 2);
myMotorcycle.Describe();
```

E.
```
var myMotorhome = new myApplication.Vehicle('display', 'silver', 3, 'manual', 10);
myMotorhome.Describe();
```

A. Option A
B. Option B
C. Option C
D. Option D

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E. Option E

Correct Answer: CE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 60
You develop an HTML5 webpage. You have the following JavaScript code:

```
01 $(document).ready(function () {
02
03     e.preventDefault();
04     ...
05   });
06 });
```

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You need to handle the click event when a user clicks the show/Dialog button.

Which code segment should you insert at line 02?

A. $ (document).trigger("click", "#showDialog", function (e) {
B. $ (document).on ("#showDialog", "click", function (e) {
C. $(document).toggle("click", "#showDialog", function (e) {
D. $(document).on("click", "#showDialog", function (e) {

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 61
You are developing an application that processes order information. Thousands of orders are processed daily. The application includes the following code segment. (Line numbers are included for reference only.)

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```
01 var counter = 0;
02 while (process()) {
03   counter++;
04
05   updateStatus();
06 }
```

The application must:
Display the number of orders processed and the number of orders remaining Update the display for every 25th record processed

You need to develop the application to meet these requirements.

Which line of code should you insert at line 04?

A. if (!(counter % 25))
B. if (counter == 25)
C. if (counter >> 25 == 0)
D. if (counter >> 25 == 0)

Correct Answer: A
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 62
You are developing an e-commerce website. Users place products into a shopping cart.

You need to ensure that the shopping cart data is available between browser sessions.

Which object should you use to store the shopping cart data?

A. clientStorage
B. localStorage
C. applicationStorage
D. sessionStorage

Correct Answer: B
Section: (none)
Explanation

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Explanation/Reference:

QUESTION 63
You are creating a JavaScript object that represents a customer.

You need to extend the Customer object by adding the GetCommission method.

You need to ensure that all future instances of the Customer object implement the GetCommission method.

Which code segment should you use?

A.
```
Customer.apply.GetCommission = function()
{
  alert('payroll');
}
```

B.
```
Customer.GetCommission = function (){
  alert('payroll');
}
```

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C.
```
Customer.prototype.GetCommission = function Customer.GetCommission()
{
  alert('payroll');
}
```

D.
```
Customer.prototype.GetCommission = function ()
{
  alert('payroll');
}
```

A. Option A
B. Option B
C. Option C

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D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 64
You develop an HTML5 webpage. You have the following HTML markup:

```
<label for="personname">Given and Surname:</label>
<input type="text" name="personname" /><br />

<label for="businessname">Business Name:</label>
<input type="text" name="businessname" /><br />

<label for="emailaddress">Email Address:</label>
<input type="text" name="emailaddress" />
```

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You need to change the background color for all of the elements whose name attribute ends with the word name.
Which code segment should you add to the webpage?

A. $ ('input [name!="name"]') .css ({ 'background-color' : ' #E0ECF8'}) ;
B. ${'input [name="~name"] ') .css ({ 'background-color' : ' #E0ECF8' }) ;
C. ${'input[name="*name"]').css({'background=color': #E0ECF8'});
D. $('input [name="$name"] ') .css ({ 'background-color' : '#E0ECF8'});

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
The string pattern "*name" matches all strings that ends with name.

QUESTION 65
You are developing a web application by using HTML5.

You have the following requirements.

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The color of a menu item must change when a user hovers over the item. The color of the menu item must change back to its original color after five seconds.

You need to ensure that the animation is applied to all menu items.

Which CSS3 code should you use?

A.
```
menuitem:hover {
  color: yellow
  opacity: 100
  transition-timing-function:ease-in;
  . . .
}
```

B.
```
menuitem:hover {
  background-color: yellow;
  transition-duration:5s;
  . . .
  }
```

C.
```
menuitem:hover {
   color: yellow
   transition-property:color;
   transition-duration:5s;
   . . .
  }
```

D.
```
menuitem:hover {
  color: yellow
  transition-duration:5s;
  . . .
}
```

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A. Option A
B. Option B
C. Option C
D. Option D

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Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 66
You are developing a JavaScript library.

You have the following requirements:
Custom exceptions must include an error message and custom error number. These exceptions must be thrown when data validation errors occur.
Developers must call the library to easily catch the exception and identify the problem.

You develop the following code. (Line numbers are included for reference only.)

```
01  function ValidationException(number, message) {
02    this.message = message;
03    this.name = "myLibrary Exception";
04    this.number = number;
05  }
06
07  function myFunction(dayOfWeek) {
08    if (dayOfWeek > 7) {
09
10    }
11  }
```

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You need to complete the code to meet the requirements.

Which line of code should you insert at line 09?

A. throw new ValidationException.Exception (123, "Day of week must be les3 than 7");
B. return new ValidationException(123, "Day of week must be less than 7");
C. throw ValidationException(123, "Day of week must be less than 7");
D. catch ValidationException(123, "Day of week: must be less than 7");

Correct Answer: A
Section: (none)
Explanation

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Explanation/Reference:
Example:
if (value < -100 || value > 100)
{
throw new ValidationException(String.Format("Value is {0} than {1}.", (value > 100 ? "greater" : "less"), value));
}

QUESTION 67
You are developing an application that retrieves a stock rate from an external web service. A web page displays a simple rotating animation to indicate whether the stock rate is increased or decreased.

The default image, as shown in the following graphic, indicates unchanged or neutral.

The arrow must point down if the stock rate is decreased, as shown in the following graphic.

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You need to ensure that the arrow points down when the stock rate decreases.

Which CSS style should you apply?

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A.
```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:move(90deg);
  }
</style>
```

B.
```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:rotate(-90deg);
  }
</style>
```

C.
```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:move(-90deg);
  }
</style>
```

D.
```
<style type="text/css">
  div
  {
    width:20px;
    height:20px;
    transform:rotate(90deg);
  }
</style>
```

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A. Option A
B. Option B

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C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 68
You are troubleshooting a web page that includes the following code segment.

```
var x = 0;
function fun() {
  var x = 1;
  if (x) {
    x = 2;
  }
}
fun();
alert(x);
```

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You need to evaluate the value of the variable x.

What will be displayed in the user interface?

A. 0
B. 1
C. 2
D. An error

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 69
You develop an HTML5 chat application.

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You need to provide real-time updates to the messages that users post in the chat application.

What should you do?

A. Use get o to obtain data updates.
B. Use a RESTful web service.
C. Use WebSockets.
D. Use ajaxo to obtain data updates.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 70
You are creating a rotating image of a company logo.

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The logo must spin on a horizontal axis and on a vertical axis.

You need to use the least amount of development effort to meet the requirement.

What should you do?

A. Create an Image Spinner object, load the image into the spinner, and set the horizontal and vertical rotation properties.
B. Create a Canvas Globe transform and set the image as the globe object. Set the horizontal and vertical rotation properties.
C. Create a single Canvas 3D transform and load the image into it. Set the rotation properties.
D. Create a Canvas 2D transform and set the image to rotate horizontally and vertically.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 71
You are developing an HTML5 web application that provides a discussion forum for users. When a user registers to access the application, the user enters an email address.

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Users can enter data that can result in cross-site scripting (XSS) attacks.

You need to ensure that email input is as secure as possible.

Which two techniques should you use? (Each correct answer presents a complete solution.
Choose two.)

A. Remove all nonalphanumeric characters before submitting data.
B. Use the email tag in forms where the email address is entered.
C. Display all email addresses inside of an HTML5 ADDRESS element.
D. Use jQuery validation with a regular expression to ensure that email addresses are valid.
E. Ensure that all form data is encrypted when it is submitted.

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 72
You are validating user input by using JavaScript and regular expressions.

A group of predefined regular expressions will validate two input fields:
An email address in a function named validateEmail (for example, firstname@contoso.com)
A nine-digit number that allows optional hyphens after the second and fifth character in a function named validateSSN(for example, 555555555 or 555-55-5555)

You need to use the correct expression to validate the input.

Which expression should you insert into each function? (To answer, drag the appropriate regular expression statement to the correct location. Each regular expression statement may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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```
/^\d{1,2}(\-|\/|\.)\d{1,2}\1\d{4}$/;
```

```
/^[0-9]{3}\^?[0-9]{2}\^?[0-9]{4}$/;
```

```
/^[0-9]{0}\^*[0-9]{2}\^*[0-9]{4}$/;
```

```
/^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
```

```
/^[0-9{3}+@[a-zA-Z0-9.-]+\.[0-9]{2,4}$/;
```

Answer Area

```
function validateSSN(userinput) {
  var ssnPattern =

  return ssnPattern.test(userinput);
 }

function validateEmail(userinput){
  var emailPattern =

  return emailPattern.test(userinput);
}
```

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Correct Answer:

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```
/^\d{1,2}(\-|\/|\.)\d{1,2}\1\d{4}$/;
```

```
/^[0-9]{0}\^*[0-9]{2}\^*[0-9]{4}$/;
```

```
/^[0-9{3}+@[a-zA-Z0-9.-]+\.[0-9]{2,4}$/;
```

Answer Area

```
function validateSSN(userinput) {
  var ssnPattern =
        /^[0-9]{3}\^?[0-9]{2}\^?[0-9]{4}$/;

  return ssnPattern.test(userinput);
 }


function validateEmail(userinput){
  var emailPattern =
        /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;

  return emailPattern.test(userinput);
}
```

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 73
You are developing a form that captures a user's email address by using HTML5 and jQuery.

The form must capture the email address and return it as a query string parameter. The query string parameter must display the @ symbol that is used in the email address.

You need to implement this functionality.

How should you develop the form? (To answer, drag the appropriate code segment to the correct target or targets in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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```
str = $("form").serialize();
```

```
str = decodeURIComponent(str);
```

```
str = $("form").contents.toString();
```

```
str = $("form").toLocaleString();
```

```
str = decodeURI(str);
```

```
<!DOCTYPE html>
<html>
<head>
  <script src="http://code.jquery.com/jquery-latest.js"><
</head>
<body>
  <form>
  <input type="text" name="email" />
  <input type="submit" value="Submit" />
  </form>
  <script>
    $("form").submit(function () {
      var str;
      return true;
    });
  </script>
</body>
</html>
```

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Correct Answer:

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str = $("form").contents.toString();

str = $("form").toLocaleString();

str = decodeURI(str);

```
<!DOCTYPE html>
<html>
<head>
  <script src="http://code.jquery.com/jquery-latest.js"><
</head>
<body>
  <form>
  <input type="text" name="email" />
  <input type="submit" value="Submit" />
  </form>
  <script>
    $("form").submit(function () {
      var str;
      str = $("form").serialize();
      str = decodeURIComponent(str);
      return true;
    });
  </script>
</body>
</html>
```

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Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/jquery/ajax_serialize.asp
http://www.w3schools.com/jsref/jsref_encodeuri.asp

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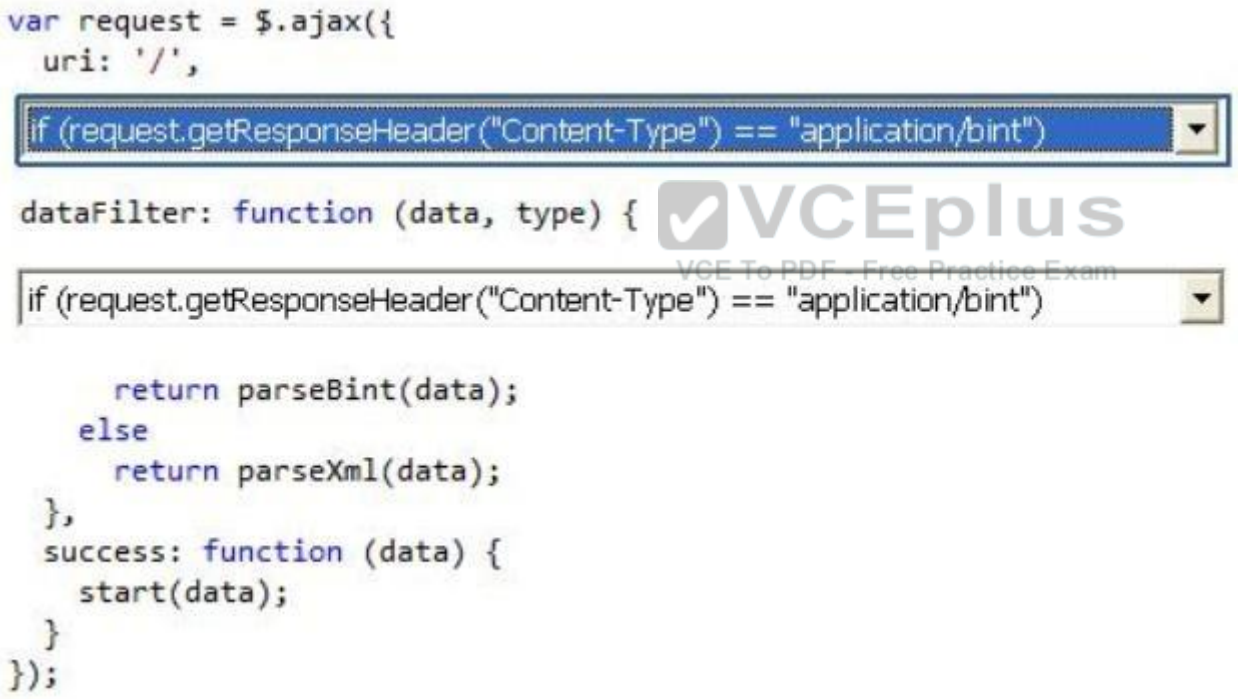
QUESTION 74
You are developing a web application that retrieves data from a web service. The data being retrieved is a custom binary datatype named bint. The data can also be represented in XML.

Two existing methods named parseXml() and parseBint() are defined on the page.

The application must:
Retrieve and parse data from the web service using binary format if possible
Retrieve and parse the data from the web service using XML when binary format is not possible

You need to develop the application to meet the requirements.

What should you do? (To answer, select the appropriate options from the drop-down lists in the answer area.)



Hot Area:

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```
var request = $.ajax({
  uri: '/',
```

if (request.getResponseHeader("Content-Type") == "application/bint")

- if (request.getResponseHeader("Content-Type") == "application/bint")
- if (type == "application/bint")
- if (request.mimeType == "application/bint")
- accepts: 'application/bint, text/xml',
- contentType: 'application/bint, text/xml',
- dataType: 'application/bint, text/xml',

```
dataFilter: function (data, type) {
```

if (request.getResponseHeader("Content-Type") == "application/bint")

- if (request.getResponseHeader("Content-Type") == "application/bint")
- if (type == "application/bint")
- if (request.mimeType == "application/bint")
- accepts: 'application/bint, text/xml',
- contentType: 'application/bint, text/xml',
- dataType: 'application/bint, text/xml',

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```
      return parseBint(data);
    else
      return parseXml(data);
  },
  success: function (data) {
    start(data);
  }
});
```

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Correct Answer:

```
var request = $.ajax({
  uri: '/',
```

if (request.getResponseHeader("Content-Type") == "application/bint")
if (request.getResponseHeader("Content-Type") == "application/bint")
if (type == "application/bint")
if (request.mimeType == "application/bint")
accepts: 'application/bint, text/xml',
contentType: 'application/bint, text/xml',
dataType: 'application/bint, text/xml',

```
dataFilter: function (data, type) {
```

if (request.getResponseHeader("Content-Type") == "application/bint")
if (request.getResponseHeader("Content-Type") == "application/bint")
if (type == "application/bint")
if (request.mimeType == "application/bint")
accepts: 'application/bint, text/xml',
contentType: 'application/bint, text/xml',
dataType: 'application/bint, text/xml',

```
      return parseBint(data);
    else
      return parseXml(data);
  },
  success: function (data) {
    start(data);
  }
});
```

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 75
You are developing a web page for runners who register for a race. The page includes a slider control that allows users to enter their age.

You have the following requirements:
All runners must enter their age.
Applications must not be accepted from runners less than 18 years of age or greater than 90 years.
The slider control must be set to the average age (37) of all registered runners when the page is first displayed.

You need to ensure that the slider control meets the requirements.

What should you do? (To answer, drag the appropriate word or number to the correct location in the answer area. Each word or number may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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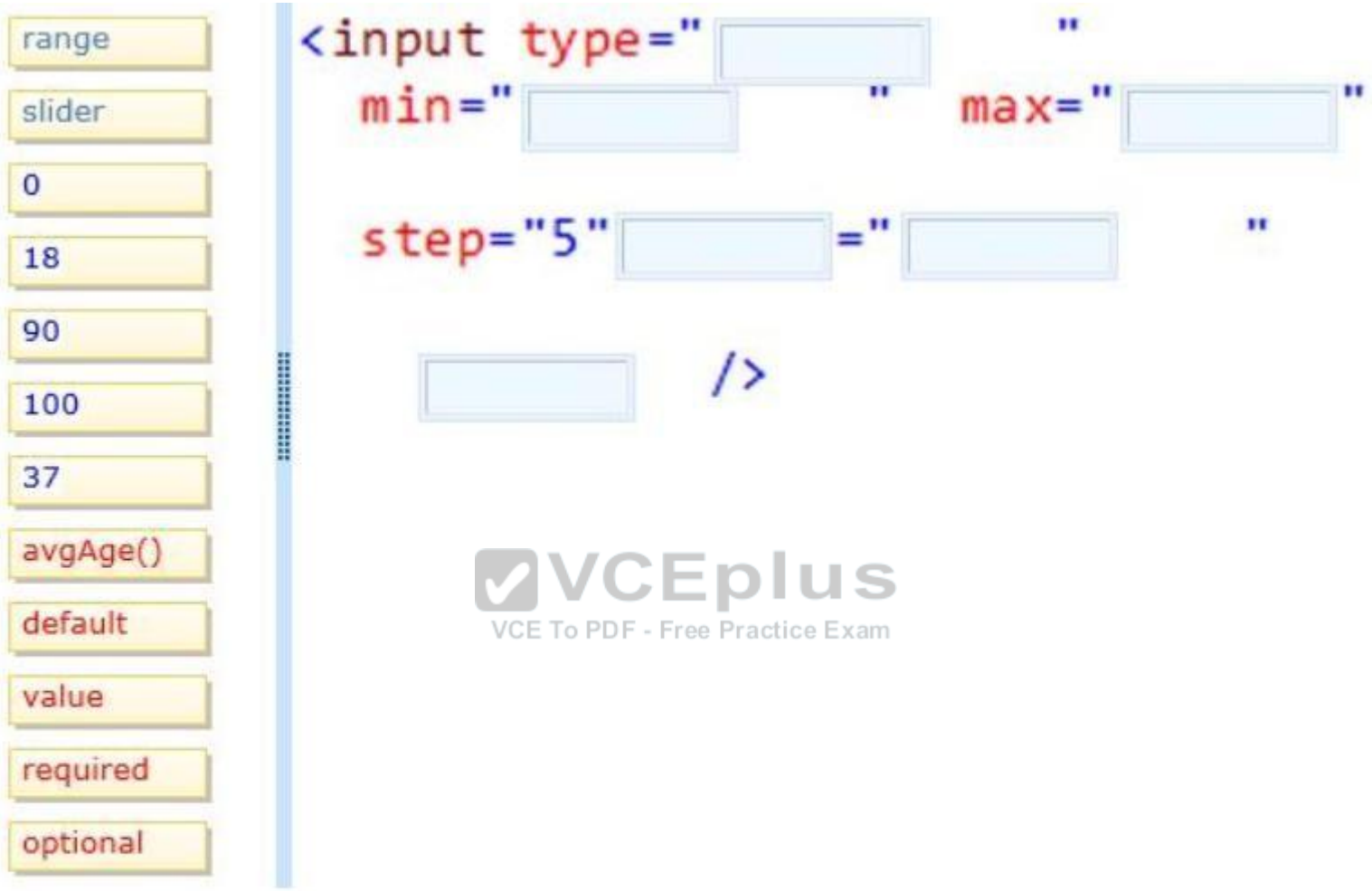

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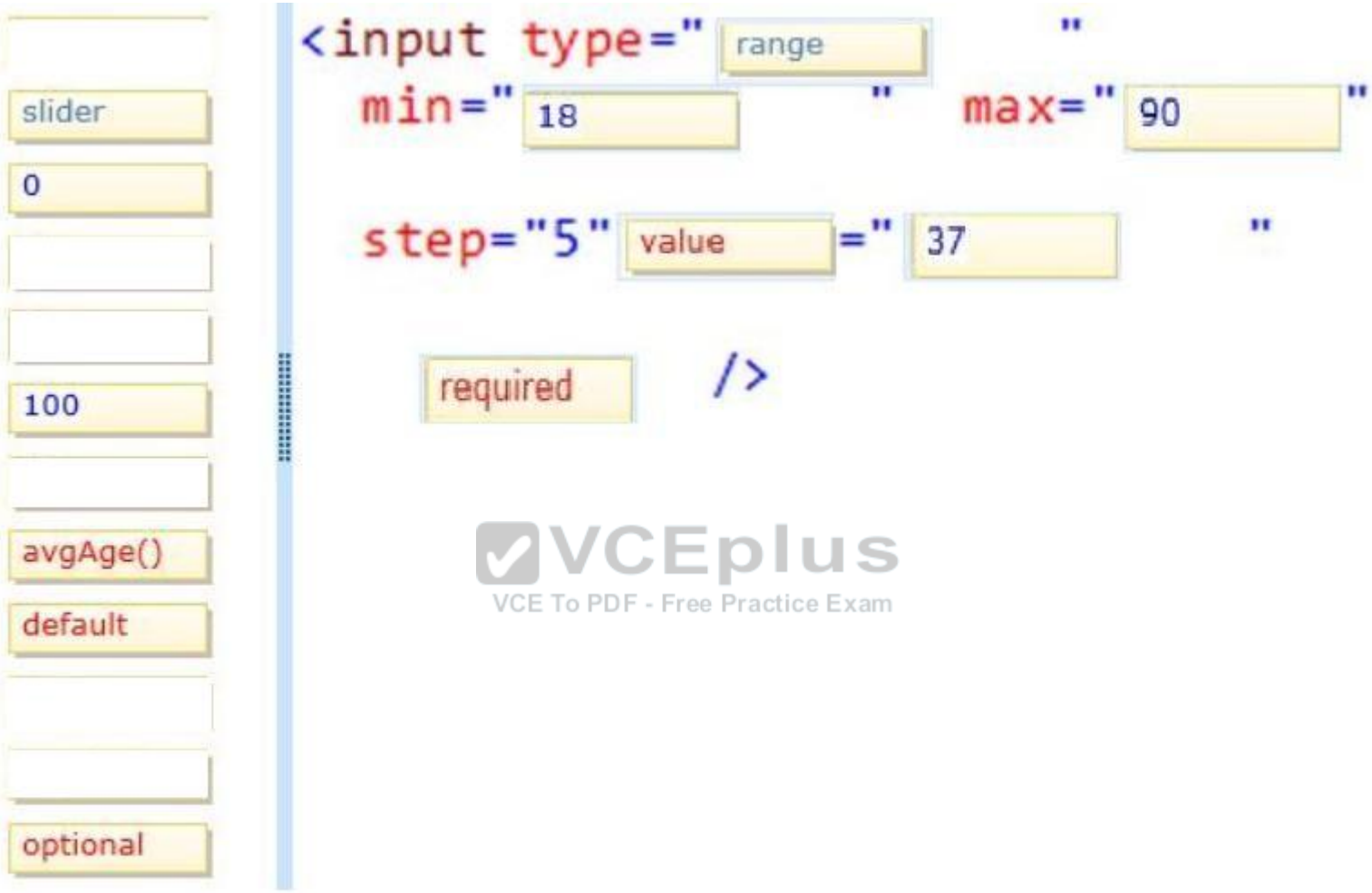
Correct Answer:



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Section: (none)
Explanation

Explanation/Reference:

QUESTION 76
You are developing an airline reservation website by using HTML5 and JavaScript. A page on the site allows users to enter departure and destination airport information and search for tickets.

You have the following requirements:
Users must be able to save information in the application about their favorite destination airport.
The airport information must be displayed in the destination text box whenever the user returns to the page.

You need to develop the site to meet the requirements.

Which lines of code should you use? (To answer, select the appropriate options from the drop-down lists in the answer area.)

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```
<body>
  <input id="txtDest" type="text" />
  <input type="button" value="Submit"
    onclick="storeDestination('txtDest')" />
  <script>
    showDestination();
    function showDestination() {

      [ var dest = localStorage.destination; ]

      if (dest != null)
        document.getElementById("txtDest").value = dest;
    }

    function storeDestination(id) {
      var dest = document.getElementById(id).value;

      [ var dest = localStorage.destination; ]

    }
  </script>
</body>
```

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Hot Area:

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```
<body>
  <input id="txtDest" type="text" />
  <input type="button" value="Submit"
    onclick="storeDestination('txtDest')" />
  <script>
    showDestination();
    function showDestination() {

      [var dest = localStorage.destination;]
        var dest = localStorage.destination;
        localStorage.destination = dest;
        var dest = sessionStorage.destination;
        sessionStorage.destination = dest;

      if (dest != null)
        document.getElementById("txtDest").value = dest;
    }

    function storeDestination(id) {
      var dest = document.getElementById(id).value;

      [var dest = localStorage.destination;]
        var dest = localStorage.destination;
        localStorage.destination = dest;
        var dest = sessionStorage.destination;
        sessionStorage.destination = dest;

    }
  </script>
</body>
```

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```
<body>
  <input id="txtDest" type="text" />
  <input type="button" value="Submit"
    onclick="storeDestination('txtDest')" />
  <script>
    showDestination();
    function showDestination() {

      [var dest = localStorage.destination;]
        var dest = localStorage.destination;
        localStorage.destination = dest;
        var dest = sessionStorage.destination;
        sessionStorage.destination = dest;

      if (dest != null)
        document.getElementById("txtDest").value = dest;
    }

    function storeDestination(id) {
      var dest = document.getElementById(id).value;

      [var dest = localStorage.destination;]
        var dest = localStorage.destination;
        localStorage.destination = dest;
        var dest = sessionStorage.destination;
        sessionStorage.destination = dest;

    }
  </script>
</body>
```

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Section: (none)
Explanation

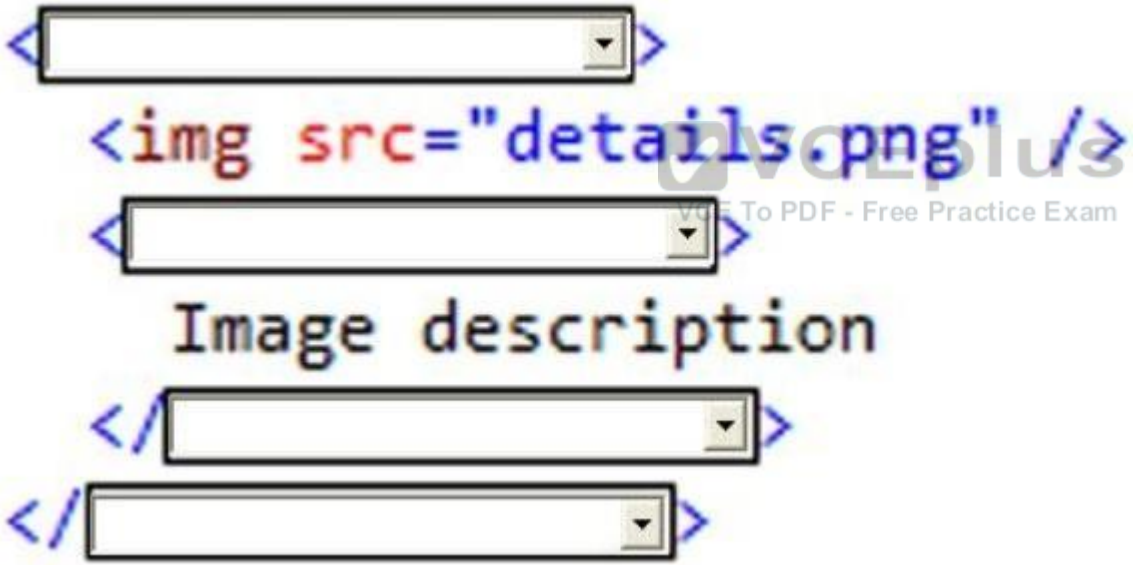
Explanation/Reference:

QUESTION 77
You are developing an HTML5 web application for displaying encyclopedia entries.

Each encyclopedia entry has an associated image that is referred to in the entry.

You need to display the image by using the correct semantic markup.

What should you do? (To answer, select the appropriate options from the drop-down list in the answer area.)



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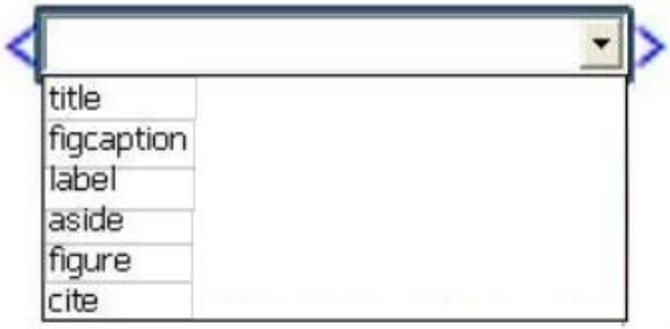


```
<img src="details.png" />
```

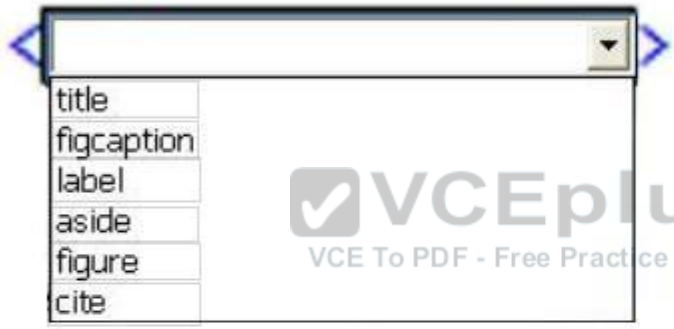

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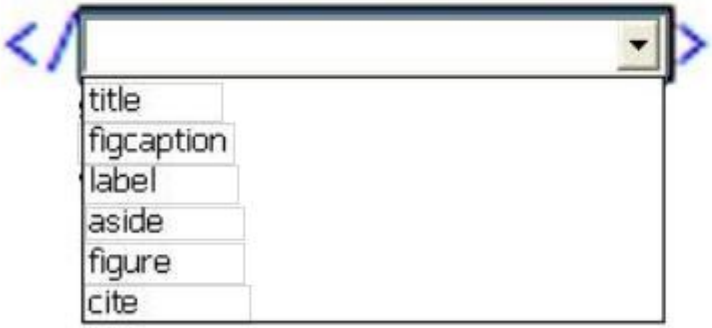
Image description



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```
<img src="details.png" />
```

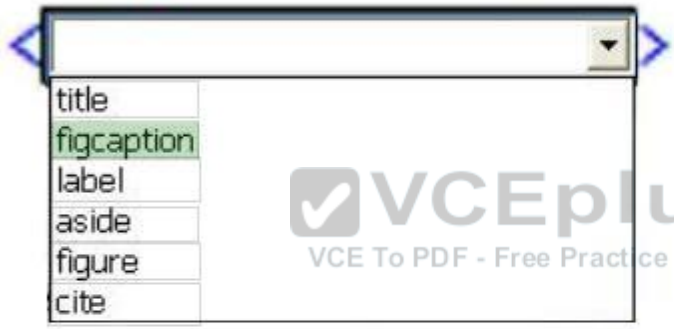

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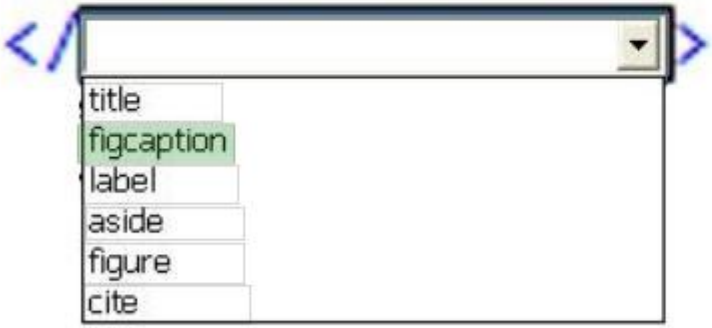
Image description



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Section: (none)
Explanation

Explanation/Reference:

QUESTION 78
An HTML page has a canvas element.

You need to draw a red rectangle on the canvas element dynamically. The rectangle should resemble the following graphic.

How should you build the code segment? (To answer, select the appropriate options from the drop-down lists in the answer area.)

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```
<!DOCTYPE html>
<html>
<body>
    <canvas id="mycanvas" width="300" height="300"></canvas>
    <script type="text/javascript">
        context.fillRect(50, 50, 100, 100);
        var context = canvas.getContext('2d');
        context.fillRect(50, 50, 100, 100);
        context.fillRect(50, 50, 100, 100);
    </script>
</body>
</html>
```

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```
<!DOCTYPE html>
<html>
<body>
    <canvas id="mycanvas" width="300" height="300"></canvas>
    <script type="text/javascript">
```

context.fillRect(50, 50, 100, 100);
- context.fillRect(50, 50, 100, 100);
- context.fillStyle = "rgb(255, 0, 0)";
- var canvas = document.getElementById('mycanvas');
- var canvas = document.BeginPath();

```
        var context = canvas.getContext('2d');
```

context.fillRect(50, 50, 100, 100);
- context.fillRect(50, 50, 100, 100);
- context.fillStyle = "rgb(255, 0, 0)";
- var canvas = document.getElementById('mycanvas');
- var canvas = document.BeginPath();

context.fillRect(50, 50, 100, 100);
- context.fillRect(50, 50, 100, 100);
- context.fillStyle = "rgb(255, 0, 0)";
- var canvas = document.getElementById('mycanvas');
- var canvas = document.BeginPath();

```
    </script>
</body>
</html>
```

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```
<!DOCTYPE html>
<html>
<body>
    <canvas id="mycanvas" width="300" height="300"></canvas>
    <script type="text/javascript">
```

context.fillRect(50, 50, 100, 100);
- context.fillRect(50, 50, 100, 100);
- context.fillStyle = "rgb(255, 0, 0)";
- var canvas = document.getElementById('mycanvas');
- var canvas = document.BeginPath();

```
        var context = canvas.getContext('2d');
```

context.fillRect(50, 50, 100, 100);
- context.fillRect(50, 50, 100, 100);
- context.fillStyle = "rgb(255, 0, 0)";
- var canvas = document.getElementById('mycanvas');
- var canvas = document.BeginPath();

context.fillRect(50, 50, 100, 100);
- context.fillRect(50, 50, 100, 100);
- context.fillStyle = "rgb(255, 0, 0)";
- var canvas = document.getElementById('mycanvas');
- var canvas = document.BeginPath();

```
    </script>
</body>
</html>
```

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 79
You are creating a web worker for an HTML5 application.

The following tasks must be performed from within the web worker:
Register an event listener for the web worker
Start and stop the web worker

You need to define a function that performs the required tasks.

Which code segment should you use? (To answer, select the appropriate option from the drop-down list in the answer area.)

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```
self.postMessage('Worker: ' + data);
    var data = event.data;
    switch (data.cmd) {
      case 'start':
        self.postMessage('Worker: ' + data);
        break;
      case 'stop':
        self.postMessage('Worker: ' + data);
        break;
      default:
        self.postMessage('Try again: ' + data.msg);
        default:
          self.postMessage('Try again: ' + data.msg);
      };
    }, false);
```

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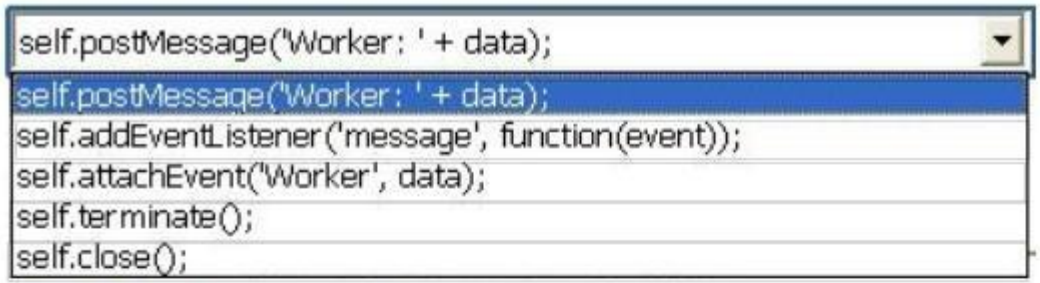
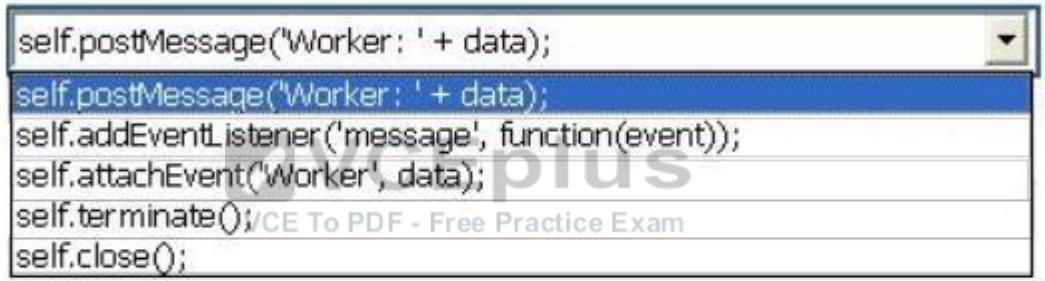
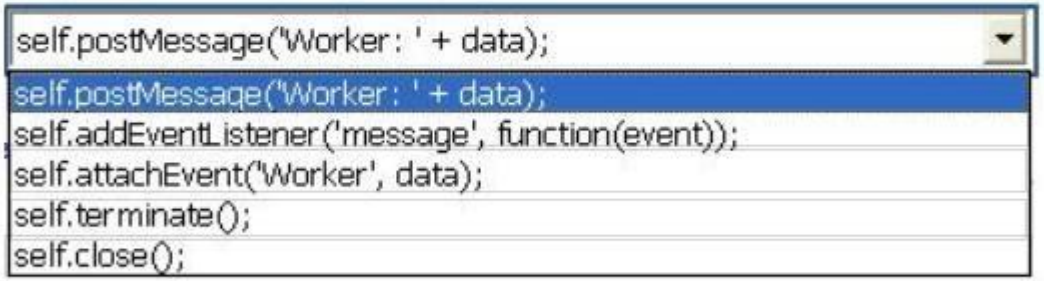



```
var data = event.data;
switch (data.cmd) {
  case 'start':
```




```
    break;
  case 'stop':
```




```
    break;
  default:
    self.postMessage('Try again: ' + data.msg);
    default:
      self.postMessage('Try again: ' + data.msg);
  };
```

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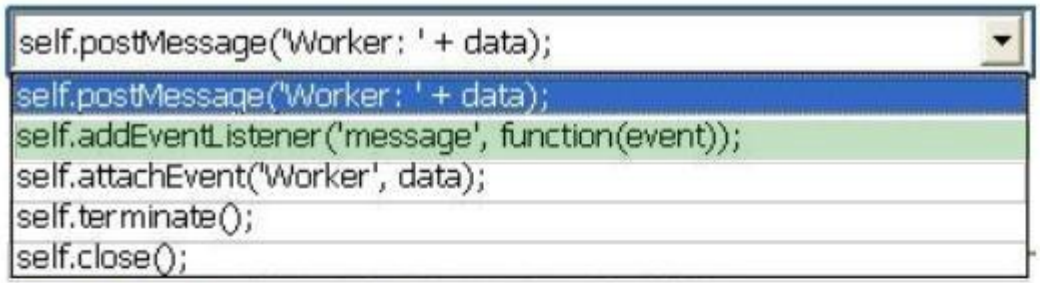
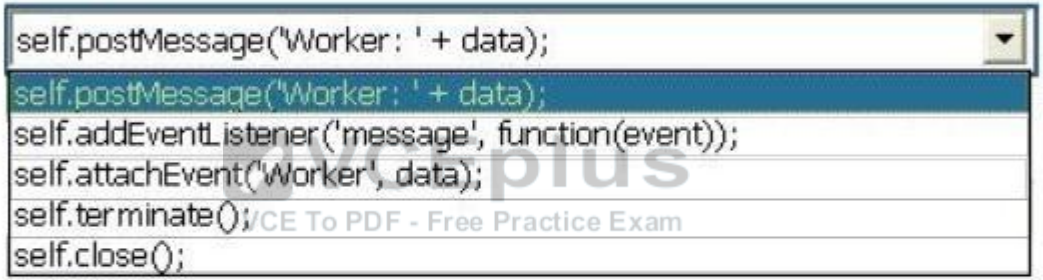
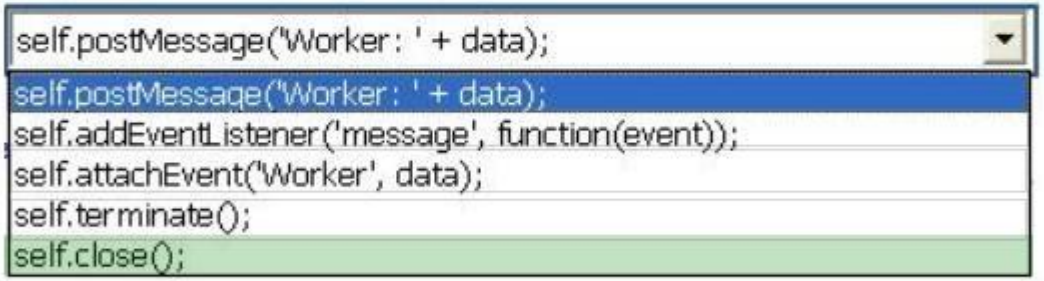



```
var data = event.data;
switch (data.cmd) {
  case 'start':
```




```
    break;
  case 'stop':
```




```
    break;
  default:
    self.postMessage('Try again: ' + data.msg);
    default:
      self.postMessage('Try again: ' + data.msg);
  };
```

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 80
You are creating a function by using JavaScript. The function accepts an object as the parameter and returns a string that identifies the data type of the object.

You have the following requirements:
The function must return "Number" if the object is a number.
The function must return "String" if the object is a string.
The function must return "Unknown" if the object is neither a number nor a string.

You need to implement the function to meet the requirements.

How should you build the code segment? (To answer, select the appropriate options from the drop-down lists in the answer area.)

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```
function GetObjectType(obj) {
[default] (obj.constructor) {
[default] Number:
        return "Number";
[default] ;
[default] String:
        return "String";
[default] ;
[default] :
        return "Unknown";
    }
}
```

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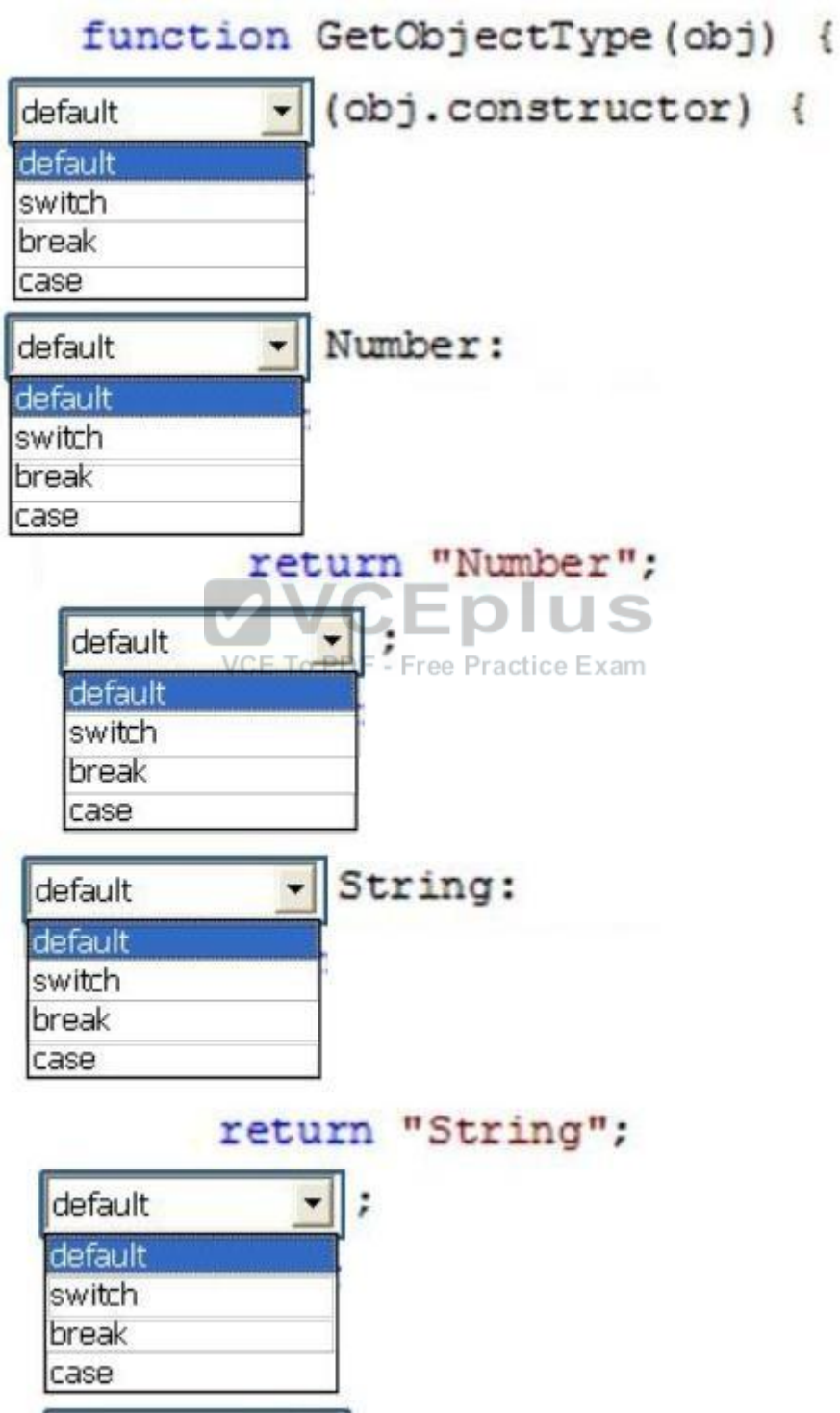

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```
function GetObjectType(obj) {
[default] (obj.constructor) {
    [default] Number:
        return "Number";
    [default];
    [default] String:
        return "String";
    [default];
}
```

default / switch / break / case

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 81
You are developing an online shopping application that accepts credit cards for payment.

If the credit card number is invalid, the application must:
Generate an error
Assign "200" to the error number
Assign "Invalid" to the error description

You need to write the code that meets the requirements.

How should you write the code? (To answer, drag the appropriate code segment or segments to the correct location in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

Correct Answer:

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Section: (none)
Explanation

Explanation/Reference:

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QUESTION 82
You are creating an application by using HTML5 and CSS3. The styles for the pages are derived from five style sheets.

The styles are not being applied correctly to the pages in the application.

You need to apply the styles from highest priority to lowest priority.

In which order should you use the five style sheets? (To answer, move the style sheet types from the list of style sheet types to the answer area and arrange them in the correct order.)

Select and Place:

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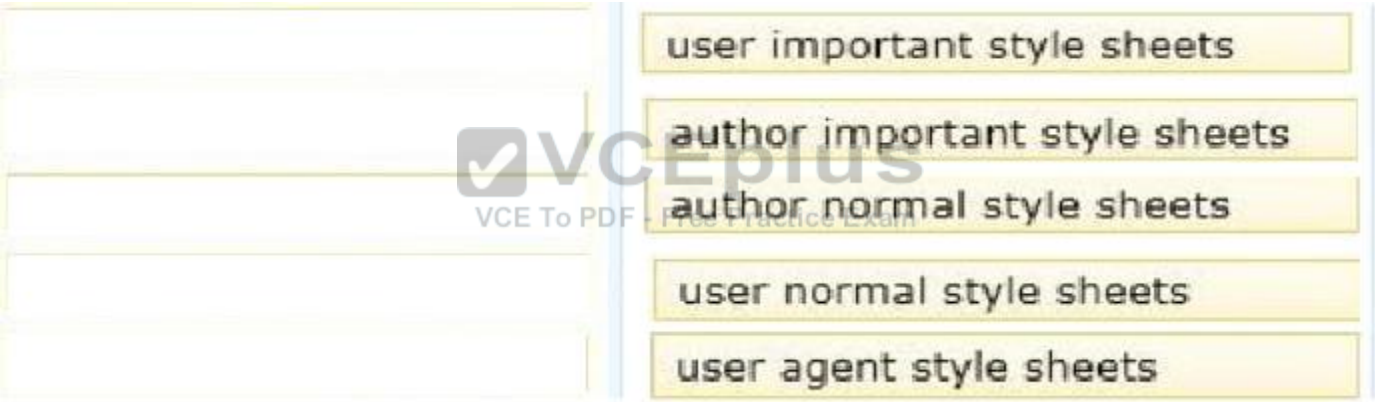
Correct Answer:



Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3.org/TR/CSS21/cascade.html
From highest priority to lowest priority.
User important style sheets
Author important style sheets
Author normal style sheets
User normal style sheets
User agent style sheets

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It is pretty clear in this article: http://www.quora.com/In-what-order-do-CSS-definitions-take-priority

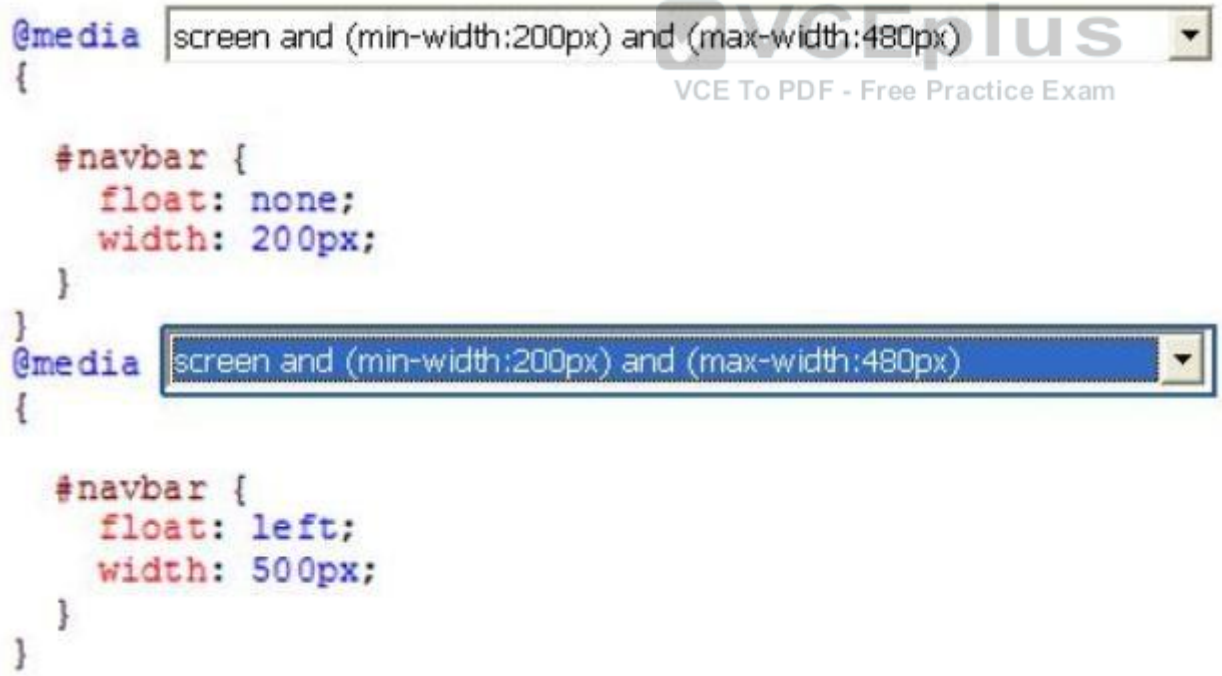
CSS declarations are applied in this order (from lowest to highest priority):
· User agent declarations (the default styles your browser applies to elements)
· User normal declarations (a user's own stylesheet if they're using one)
· Author normal declarations (this is your normal stylesheet)
· Author important declarations (anything your mark important)
· User important declarations (any important styles from the user's stylesheet)

QUESTION 83
You are developing a web page that will be accessed from various types of devices.

You have the following requirements:
The appropriate display resolution must be selected dynamically based on the device connecting to the page.
Mobile devices with a maximum width of 480 pixels must be able to use the page.

You need to ensure that the page displays correctly on any device.

How should you build the code? (To answer, select the appropriate options from the drop-down lists in the answer area.)



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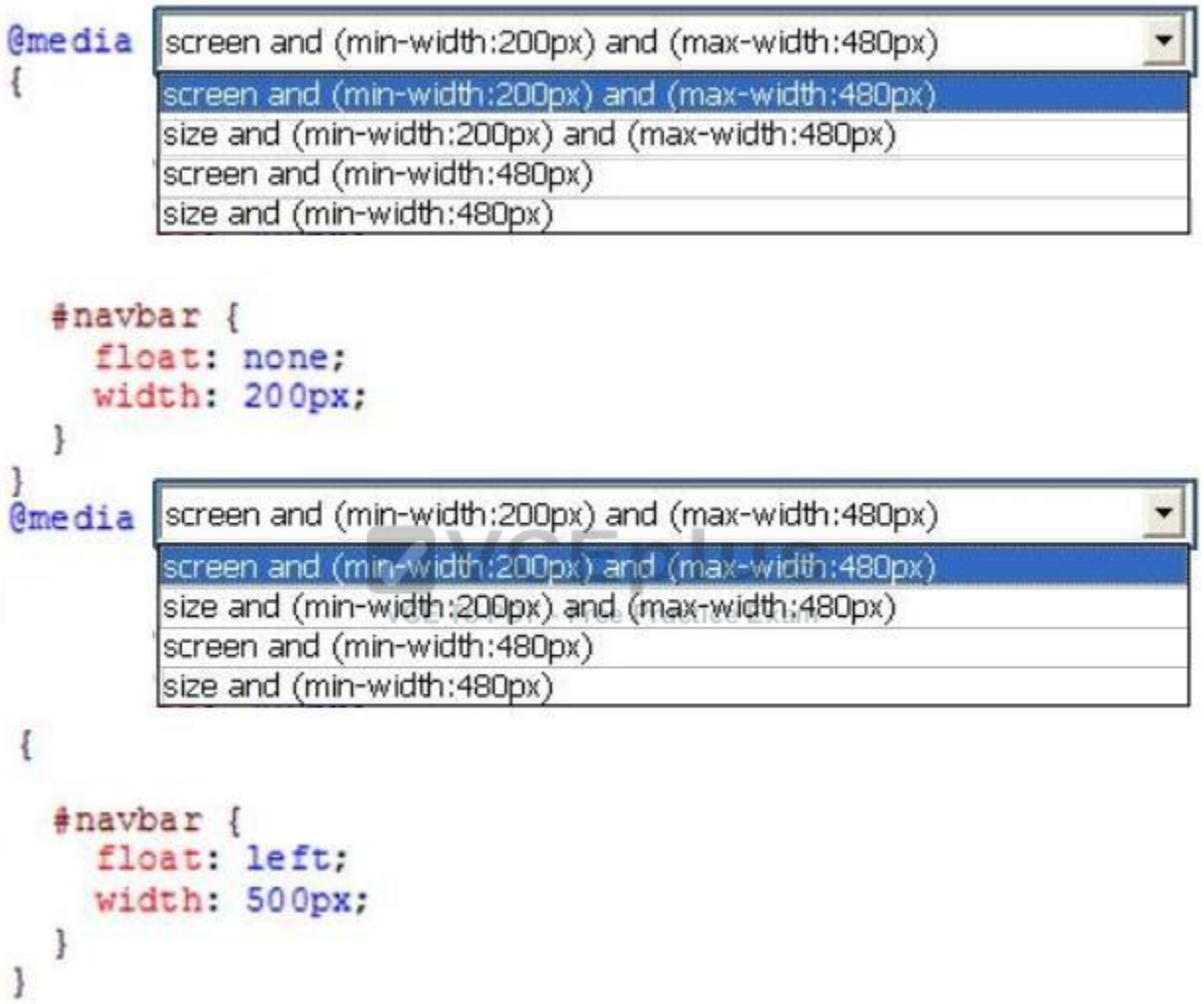
Hot Area:



Correct Answer:

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 84
You are developing a website that has many web pages with hyperlinks to other sites.

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You need to ensure that if a hyperlink contains an image, the linked web page opens in a new window.

Which jQuery code segment or segments should you use? (To answer, drag the appropriate line of code to the correct location. Each line of code may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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```
$("a img").each(function () {
```

```
$(this).parent().attr('target', '_blank')
```

```
$("a").each(function () {
```

```
$(this).attr('target', '_blank')
```

Answer Area

```
<!DOCTYPE html>
<html>
<head>
  <title></title>
  <script src="http://code.jquery.com/jquery-latest.js">
  </script>
</head>
<body>
  <a href="http://www.microsoft.com">
    <img src="img.png" />
  </a>
</body>
<script>
  $(document).ready(function () {

    });
  });
</script>
```

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Correct Answer:

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```
$("a").each(function () {
```

```
$(this).attr('target', '_blank')
```

Answer Area

```
<!DOCTYPE html>
<html>
<head>
  <title></title>
  <script src="http://code.jquery.com/jquery-latest.js">
  </script>
</head>
<body>
  <a href="http://www.microsoft.com">
    <img src="img.png" />
  </a>
</body>
<script>
  $(document).ready(function () {
      $("a img").each(function () {

      $(this).parent().attr('target', '_blank')

    });
  });
</script>
```

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 85
You are developing an HTML5 application for a company. You apply the following style to a DIV element on a page.

```
div
{
  border:3px solid;
  background:#b6aaaa;
  width:200px;
  height:100px;
  top: 10%;
  left:10%;
  border-radius:25px 0px 25px 0px;
}
```

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You need to submit a draft illustration of the results of this code.

Which illustration should you submit? (To answer, select the appropriate illustration in the answer area.)

Hot Area:

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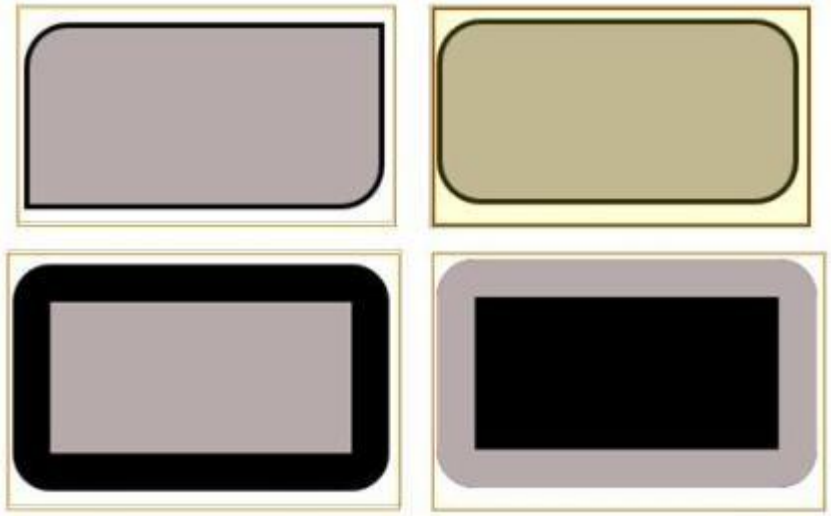
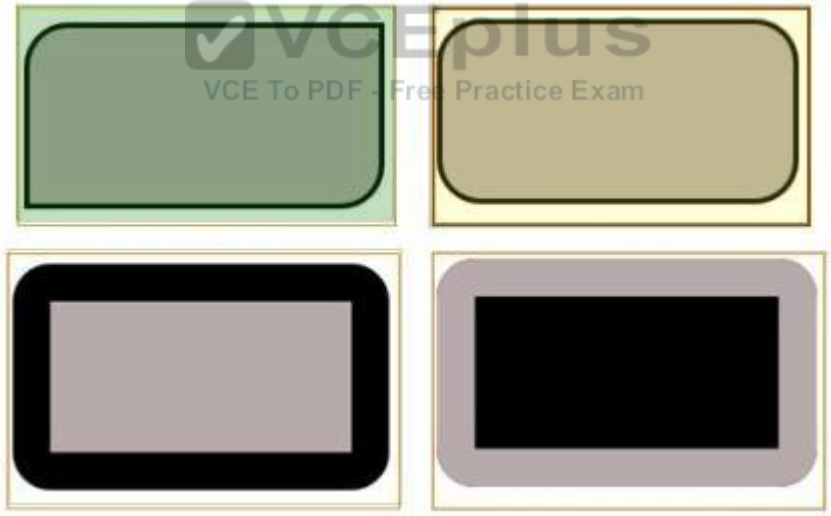


Correct Answer:



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Section: (none)
Explanation

Explanation/Reference:

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QUESTION 86
You are developing a web page that will be accessed from various types of devices.

You have the following requirements:
The appropriate display resolution must be selected dynamically based on the device that is connecting to the page.
Mobile devices with a maximum width of 480 pixels must be able to use the page.

You need to ensure that the page displays correctly on any device.

How should you build the code? (To answer, drag the appropriate media statement to the correct location. Each media statement may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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```
screen and (min-width:200px) and (max-width:480px)
size and (min-width:200px) and (max-width:480px)
screen and (min-width:480px)
size and (min-width:480px)
```

```
@media
{
  #navbar {
    float: none;
    width: 200px;
  }
}
@media
{
  #navbar {
    float: left;
    width: 500px;
  }
}
```

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Correct Answer:

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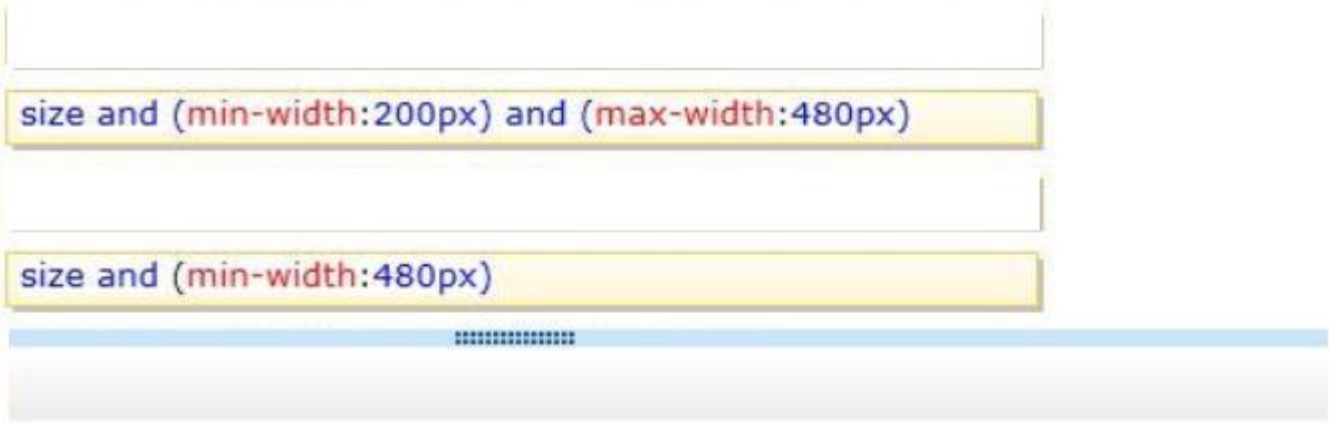


```
@media screen and (min-width:200px) and (max-width:480px)
{
  #navbar {
    float: none;
    width: 200px;
  }
}
@media screen and (min-width:480px)
{
  #navbar {
    float: left;
    width: 500px;
  }
}
```

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Section: (none)

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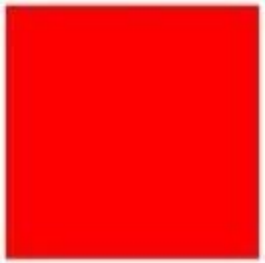
Explanation

Explanation/Reference:

QUESTION 87
An HTML page has a CANVAS element.

You need to draw a red rectangle on the CANVAS element dynamically. The rectangle should resemble the following graphic.



How should you build the code segment? (To answer, drag the appropriate line of code to the correct location. Each line of code may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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```
context.fillRect(50, 50, 100, 100);
context.fillStyle = "rgb(255, 0, 0)";
var canvas = document.getElementById('mycanvas');
var canvas = document.BeginPath();
context.fillSquare(50, 50, 100, 100);
```

```
<!DOCTYPE html>
<html>
<body>
    <canvas id="mycanvas" width="300" height="300"></canvas>
    <script type="text/javascript">

        var context = canvas.getContext('2d');

    </script>
</body>
</html>
```

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Correct Answer:

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```
var canvas = document.BeginPath();
context.fillSquare(50, 50, 100, 100);
```

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```
<!DOCTYPE html>
<html>
<body>
    <canvas id="mycanvas" width="300" height="300"></canvas>
    <script type="text/javascript">
        var canvas = document.getElementById('mycanvas');
        var context = canvas.getContext('2d');
        context.fillStyle = "rgb(255, 0, 0)";
        context.fillRect(50, 50, 100, 100);
    </script>
</body>
</html>
```

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 88
You are developing a web page for runners who register for a race.

The page includes a slider control that allows users to enter their age.

You have the following requirements:
All runners must enter their age.
Applications must not be accepted from runners less than 18 years of age or greater than 90 years.
The slider control must be set to the average age (37) of all registered runners when the page is first displayed.

You need to ensure that the slider control meets the requirements.

What should you do? (To answer, drag the appropriate word or number to the correct location in the answer area. Each word or number may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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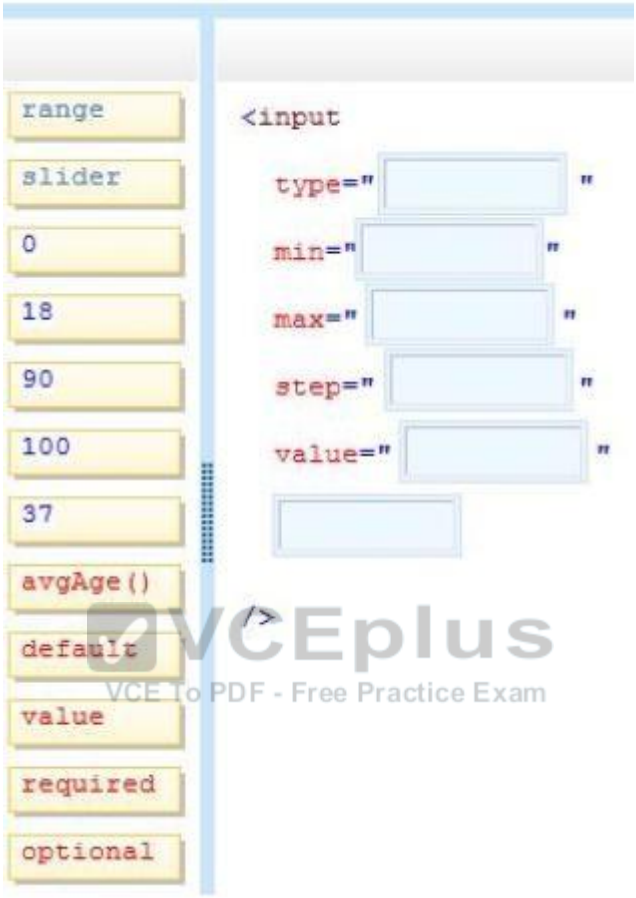

Correct Answer:

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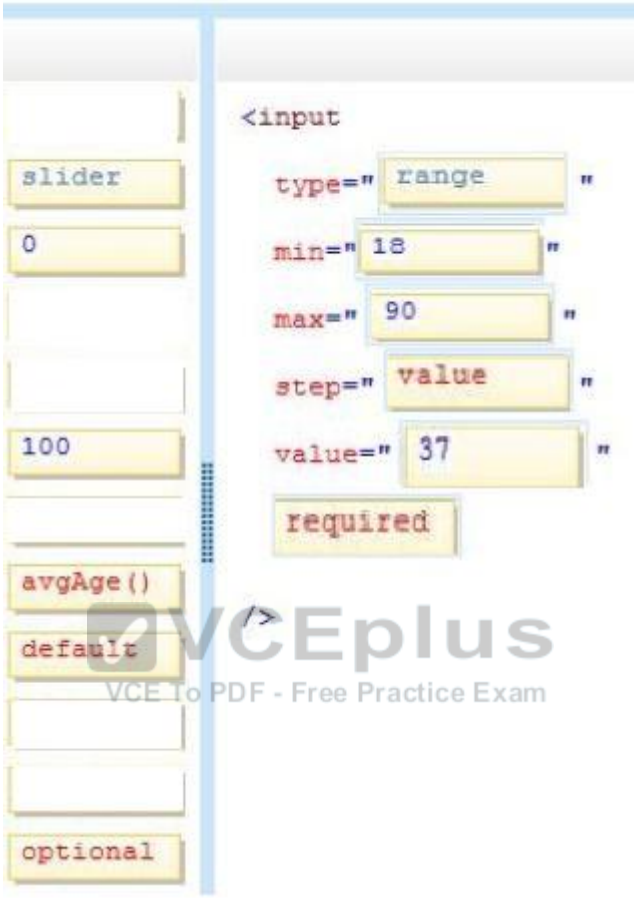

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 89
You are creating an application by using HTML5 and CSS3. The styles for the pages are derived from five style sheets.

The styles are not being applied correctly to the pages in the application.

You need to determine the order in which the style sheets will be applied by the browser.

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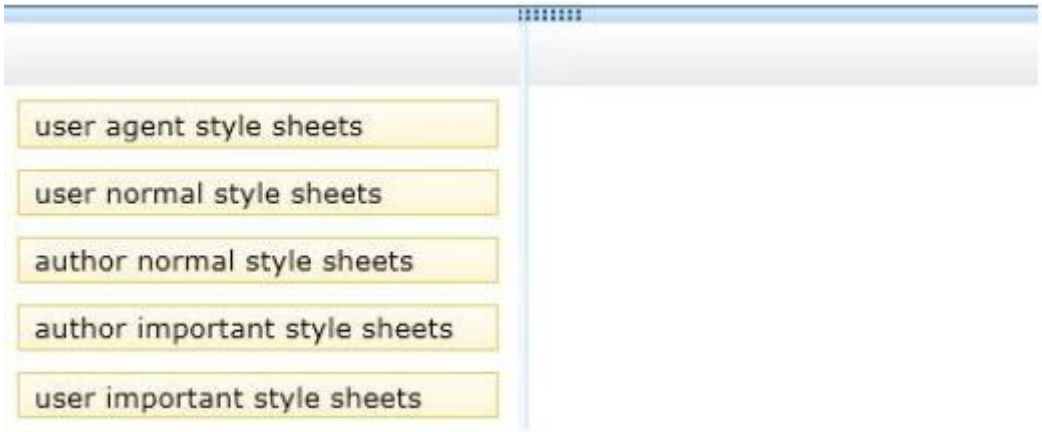
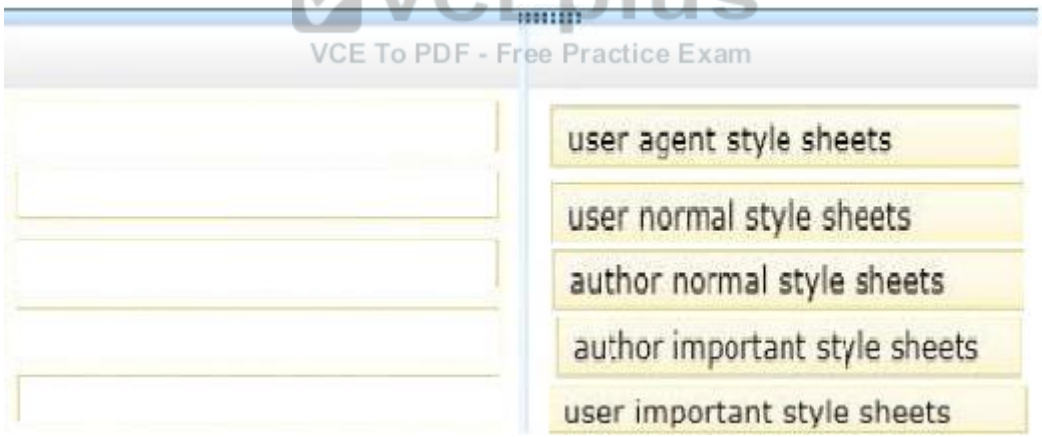
In which order will the five style sheets be applied? (To answer, move the style sheet types from the list of style sheet types to the answer area and arrange them in the order that they will be applied.)

Select and Place:



Correct Answer:



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Section: (none)
Explanation

Explanation/Reference:
Note:
The order of declarations from least important to most important:

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user agent declarations
user normal declarations
author normal declarations
author important declarations
user important declarations

QUESTION 90
You are reviewing the CSS markup for an HTML5 page that displays a news article. The CSS markup for the page is as follows:

```
h4 {
  color: powderblue;
}
.headline {
  color: red;
}
article {
  color: black;
  font-style: normal;
}
aside h4 {
  font-style: italic !important;
  color: yellow;
}
article h4 {
  font-style: normal;
  color: sienna;
}
```

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The HTML markup for the page is as follows:

```
<div>
  <h4>International News</h4>
  <article>
    <h4 class="headline">New Developments!</h4>
    <aside>
      <h4>Impact On Markets</h4>
    </aside>
  </article>
</div>
```

For each statement in the table, select Yes if the code segments above causes the page to behave as described. Select No if it does not. Make only one selection in each column

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Hot Area:

Yes	No	Description of Behavior
○	○	The color of the **International News** header is red.
○	○	The color of the **New Developments!** header is black.
○	○	The color of the **Impact On Markets** header is yellow.
○	○	The text of the **Impact On Markets** header is italicized.

Correct Answer:

Yes	No	Description of Behavior
○	○	The color of the **International News** header is red.
○	○	The color of the **New Developments!** header is black.
○	○	The color of the **Impact On Markets** header is yellow.
○	○	The text of the **Impact On Markets** header is italicized.

Section: (none)
Explanation

Explanation/Reference:

QUESTION 91
You review code that uses WebSockets for a browser-based multiplayer game. Each player sends a move to the server, which then sends the move to all connected game instances. The following code runs in the browser and handles the sending and receiving of moves:

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```
var moveList = new Array();
var myMoves = {};

var server = new WebSocket('ws://gameserver.proseware.com/');
server.onmessage = function(message) {
  if (myMoves[message.data.id] == undefined)
    moveList.push(message.data);
};

server.onopen = function() {
  server.send(getUserName());
};

function sendMove() {
  var nextMove = getMove();
  myMoves[nextMove.id] = nextMove;
  server.send(nextMove);
}
```

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For each statement in the table, select Yes if the code segment above causes the page to behave as described. Select No if it does not. Make only one selection in each column.

Hot Area:

Yes	No	Description of Behavior
○	☐	The moves are added to the moveList array in the order in which they were played.
○	☐	The username is sent to the server before any moves are sent or received.
○	○	The player's own moves will be added to the moveList array.

Correct Answer:

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Yes	No	Description of Behavior
○	○	The moves are added to the moveList array in the order in which they were played.
○	○	The username is sent to the server before any moves are sent or received.
○	○	The player's own moves will be added to the moveList array.

Section: (none)
Explanation

Explanation/Reference:

QUESTION 92
You develop an HTML5 webpage. You have the following HTML markup:

```
<ul id="languages">
  <li>HTML</li>
  <li>JavaScript</li>
  <li>Classic ASP</li>
  <li>ASP.Net</li>
</ul>
```

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You also have the following JavaScript variable defined:

var languages = [];

You need to add statements to an existing JavaScript function to sort the list items.

Which four actions should you perform in sequence? (Develop the solution by selecting the required code segments and arranging them in the correct order.)

Select and Place:

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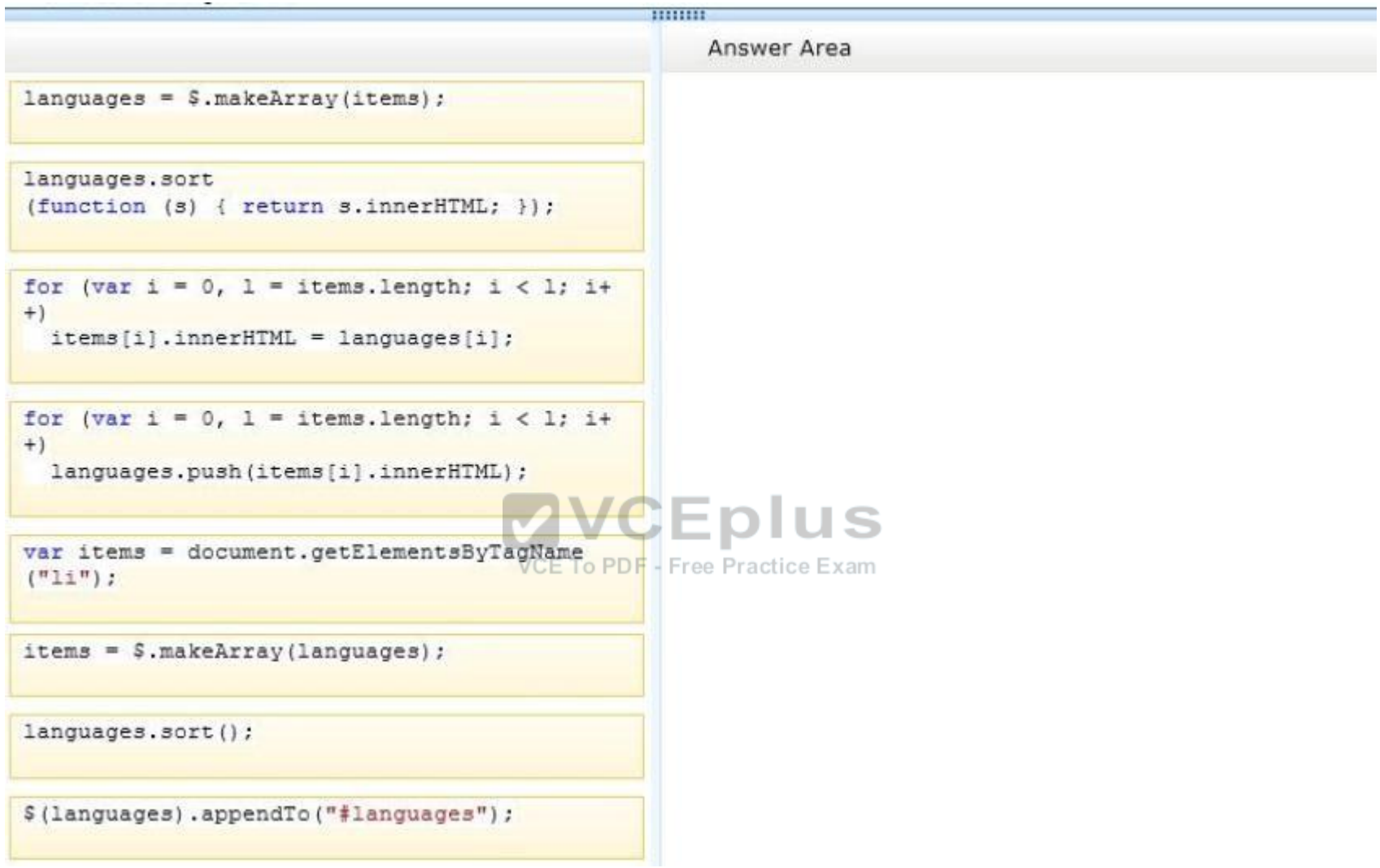

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Correct Answer:

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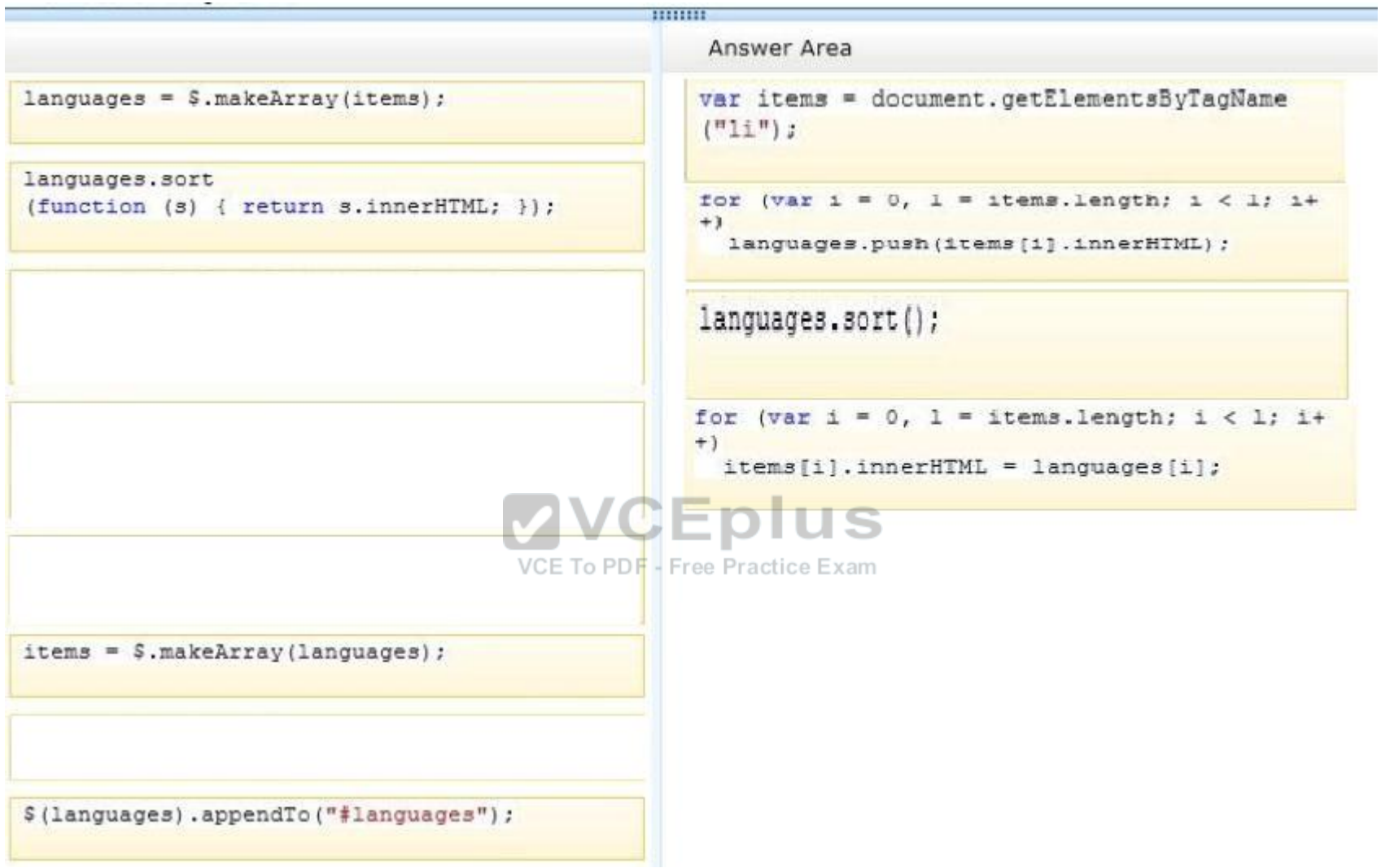

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Section: (none)
Explanation

Explanation/Reference:
Note:
* getElementsByTagName

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The getElementsByTagName() method accesses all elements with the specified tagname.

* Example:

```
// Get the list items and setup an array for sorting
  var lis = ul.getElementsByTagName("LI");
  var vals = [];

  // Populate the array
  for(var i = 0, l = lis.length; i < l; i++)
    vals.push(lis[i].innerHTML);

  // Sort it
  vals.sort();

  // Sometimes you gotta DESC
  if(sortDescending)
    vals.reverse();

  // Change the list on the page
  for(var i = 0, l = lis.length; i < l; i++)
    lis[i].innerHTML = vals[i];
}
```

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QUESTION 93
You create an HTML5 webpage. You have the following HTML markup:

```
<table id="fruitTable">
  <tr>
    <th>Fruit</th>
    <th>Inventory</th>
  </tr>
</table>
```

You also have the following JavaScript code segment:

var jsonFruit = { "apples" : "12", "bananas" : "8", "watermelon" : "3" }

You need to add additional rows to the fruitTable element by processing the jsonFruit values in the order listed.

Which three actions should you perform in sequence? (Develop the solution by selecting the required code segments and arranging them in the correct order.)

Select and Place:

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Correct Answer:

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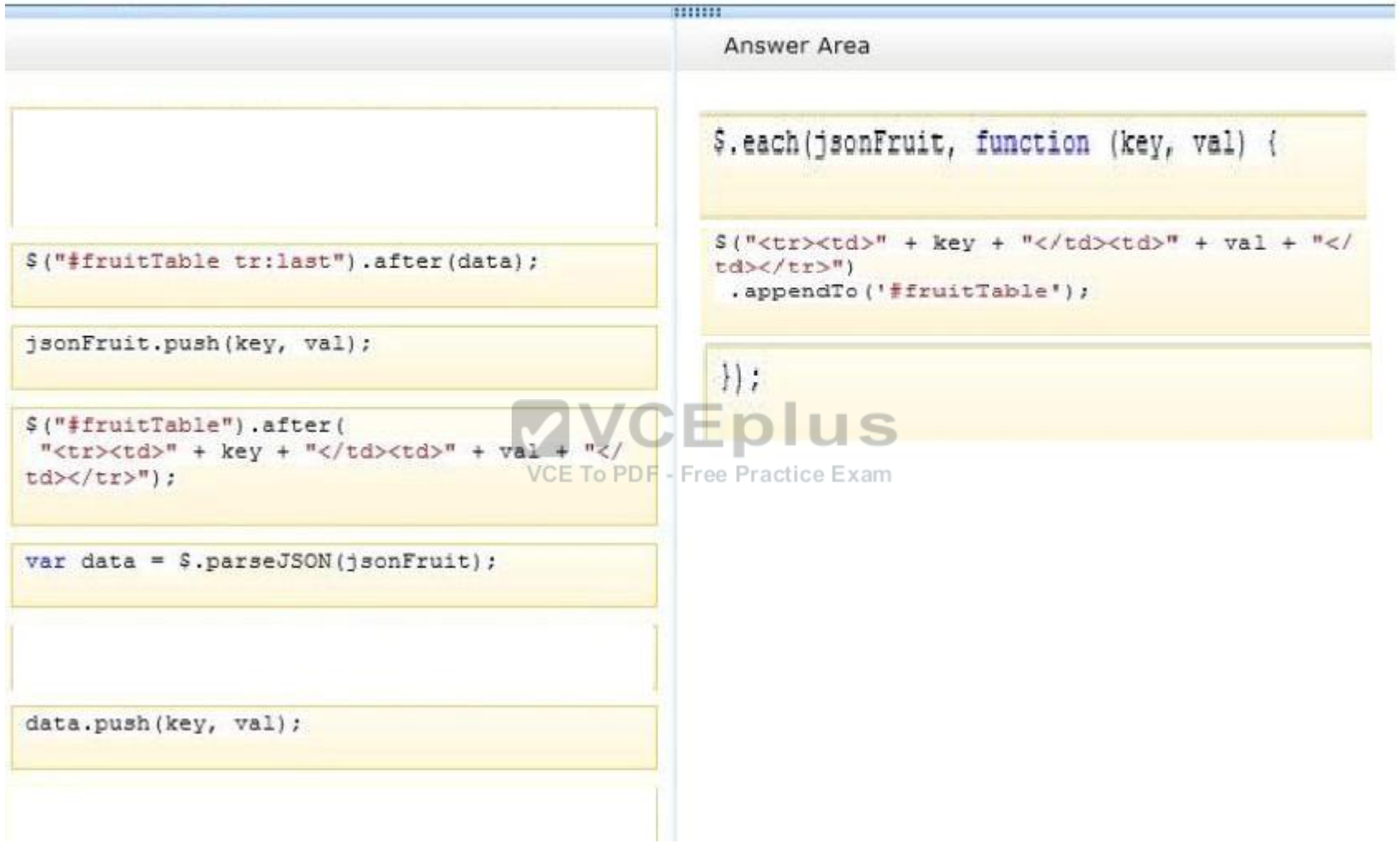

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Section: (none)
Explanation

Explanation/Reference:

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QUESTION 94
You have the following code:

```
01  $(document).ready(function () {
02    $('#submit').click(function () {
03      $.getJSON({
04         url: "url/GetImage",
05         success: function (result) {
06           var personImage = new PersonImage(result);
07           $("#happy").html(personImage.img);
08         }
09      });
10    });
11  });
12  function PersonImage(image) {
13
14  }
```

The web service returns a JSON object that contains two properties named Description and FileName.

The PersonImage object must meet the following requirements:
Create an object that represents an image that will be displayed.
Set the image properties from the values that are returned by the web service.
Expose the image as a property of the PersonImage object.

You need to insert code at line 13 to complete the implementation of the PersonImage object.

Which three actions should you perform in sequence to complete the implementation? (Develop the solution by selecting the required code segments and arranging them in the correct order.)

Select and Place:

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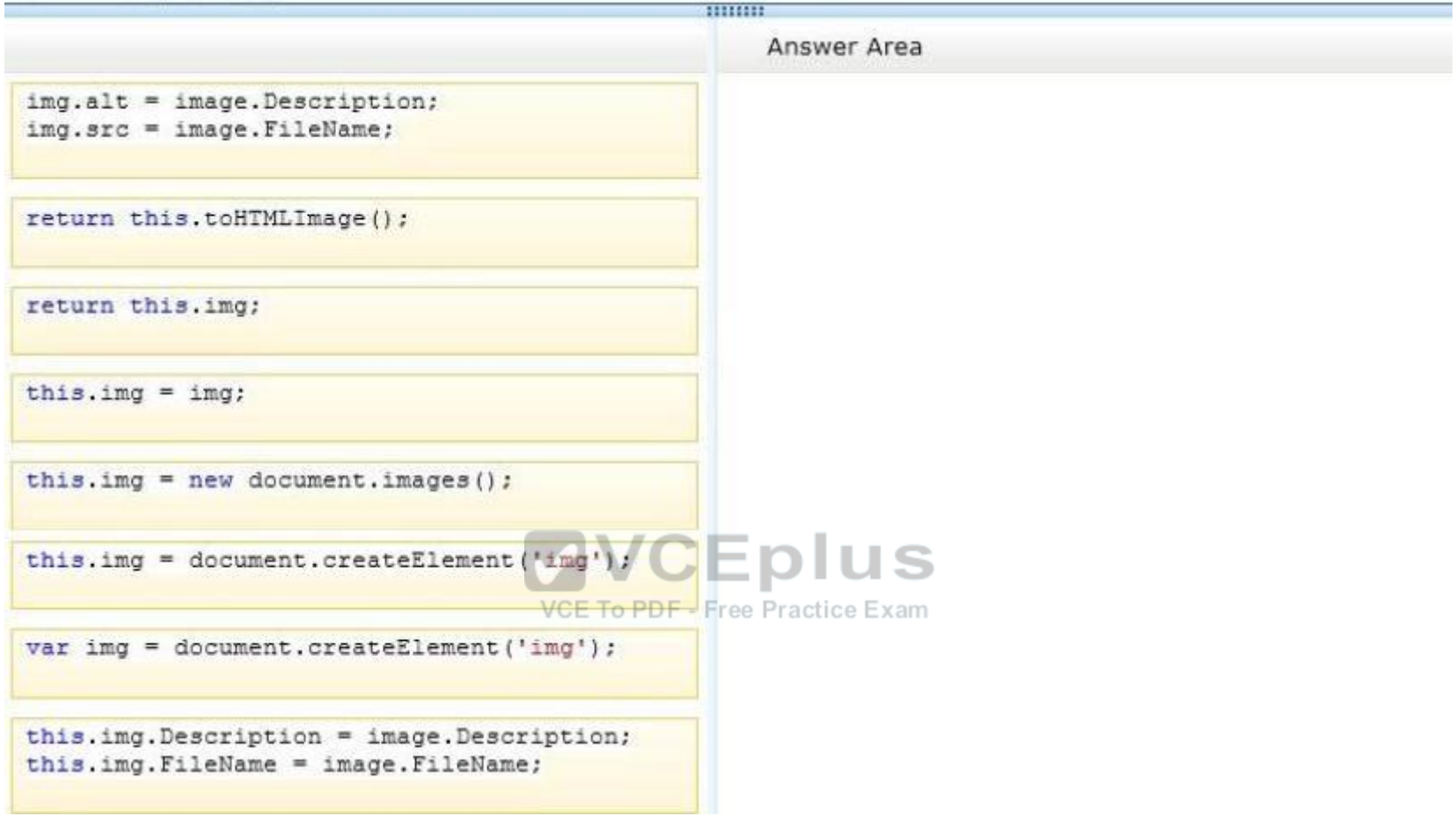

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Correct Answer:

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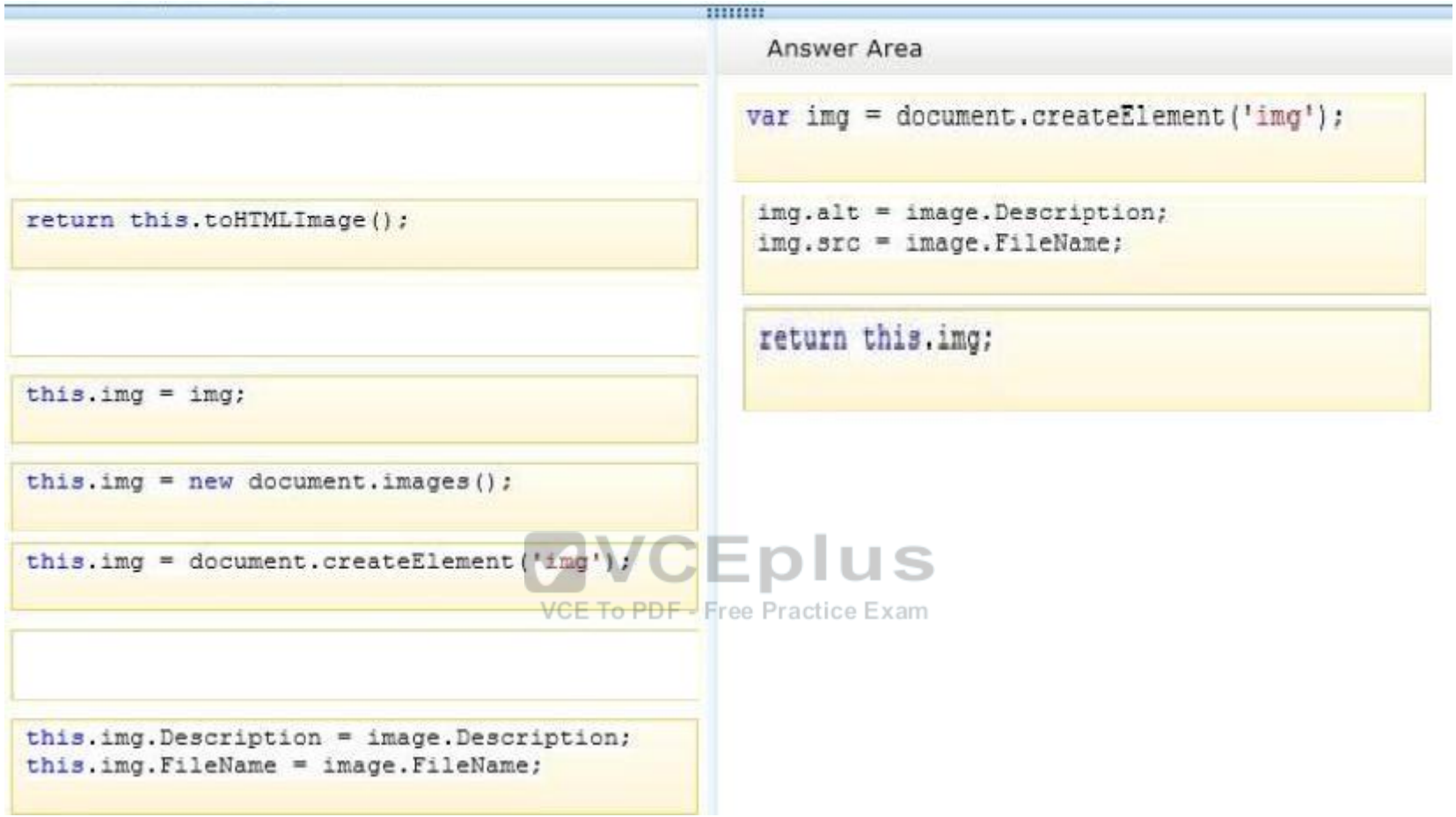

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Section: (none)
Explanation

Explanation/Reference:
Note:
* Image Object

The Image object represents an embedded image.

For each <img> tag in an HTML document, an Image object is created.

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Notice that images are not technically inserted into an HTML page, images are linked to HTML pages. The <img> tag creates a holding space for the referenced image.

* Image Object Properties include
alt, Sets or returns the value of the alt attribute of an image
src, Sets or returns the value of the src attribute of an image

QUESTION 95
You develop an HTML messaging application that allows users to send messages. The messages can have an optional file attachment that is identified by a filename.
You use the following function to send a message:

```
function send(to, args) {
  if (args.fileName !== undefined) {
    sendFile(to, args.message, args.fileName);
  } else {
    sendMessage(to, args.message);
  }
}
```

You need to send a message with a file attachment.

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How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
var recipient = $('to').val();
var body = $('body').val();
var fileName = $('fileName').val();

send(recipient, {[ ]  [ ]});
```

Hot Area:

```
var recipient = $('to').val();
var body = $('body').val();
var fileName = $('fileName').val();

send(recipient, {[ ]  [ ]});
```

message: body,	fileName: fileName
message = body,	fileName = filename
[message] = body,	args[fileName] = fileName)
args.message(body),	new args.fileName(fileName)

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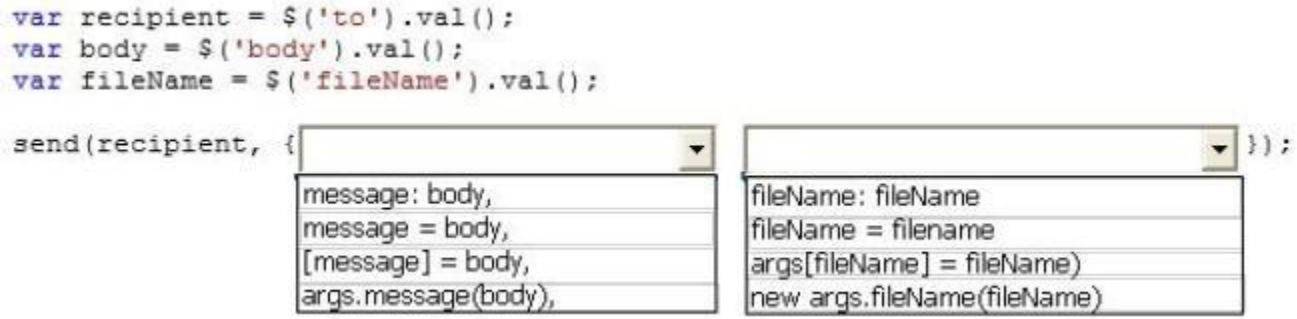
Correct Answer:



Section: (none)
Explanation

Explanation/Reference:

QUESTION 96
You develop an HTML application that calls a web service to retrieve JSON data. The web service contains one method named GetFullName that returns an Object named data. The data object contains two properties named GivenName and Surname.

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You need to load data from the web service to the webpage.

How should you complete the relevant code? (To answer, drag the appropriate code segment or code segments to the correct location or locations in the answer area. Use only code segments that apply.)

Select and Place:

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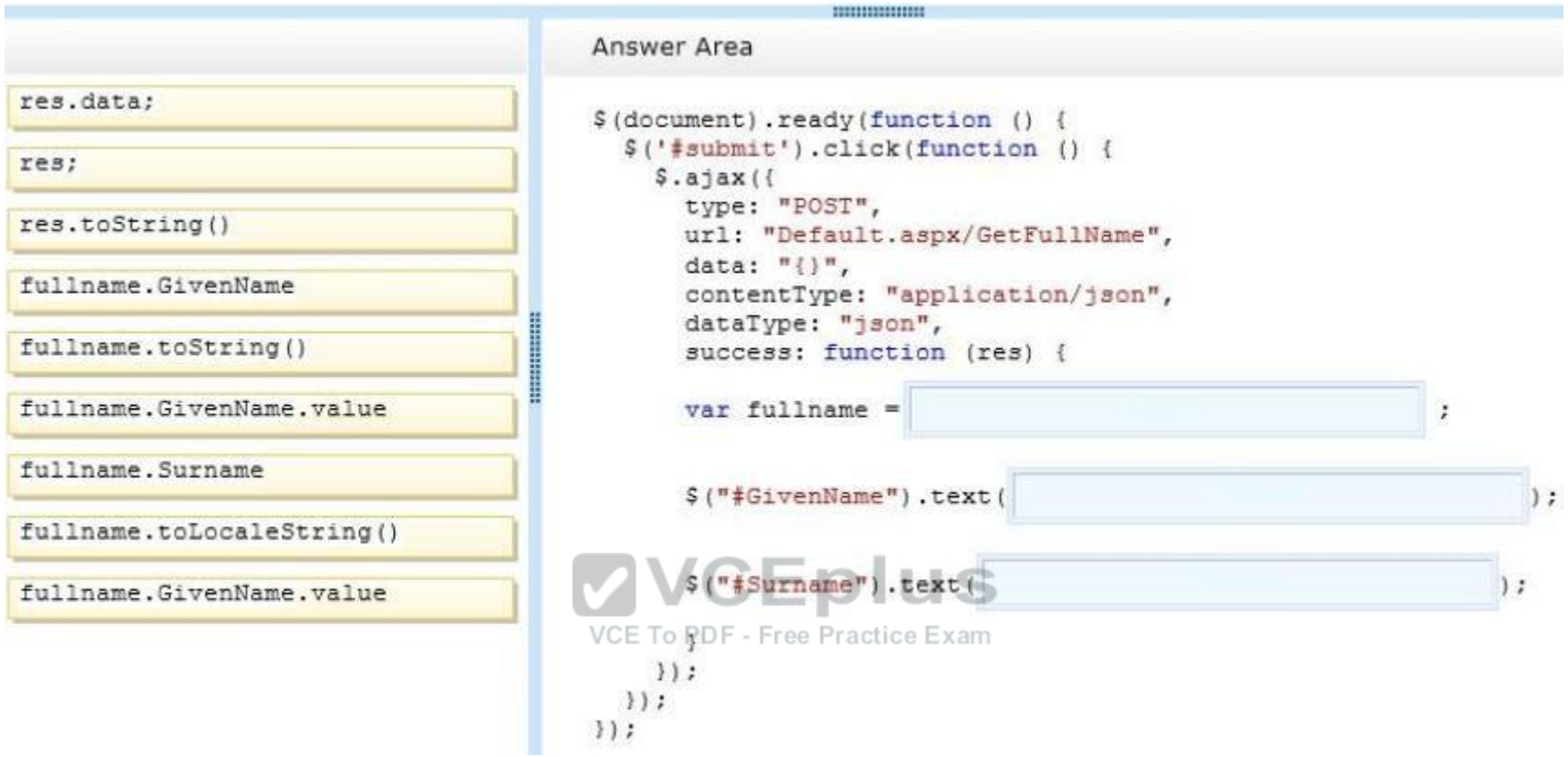

Correct Answer:

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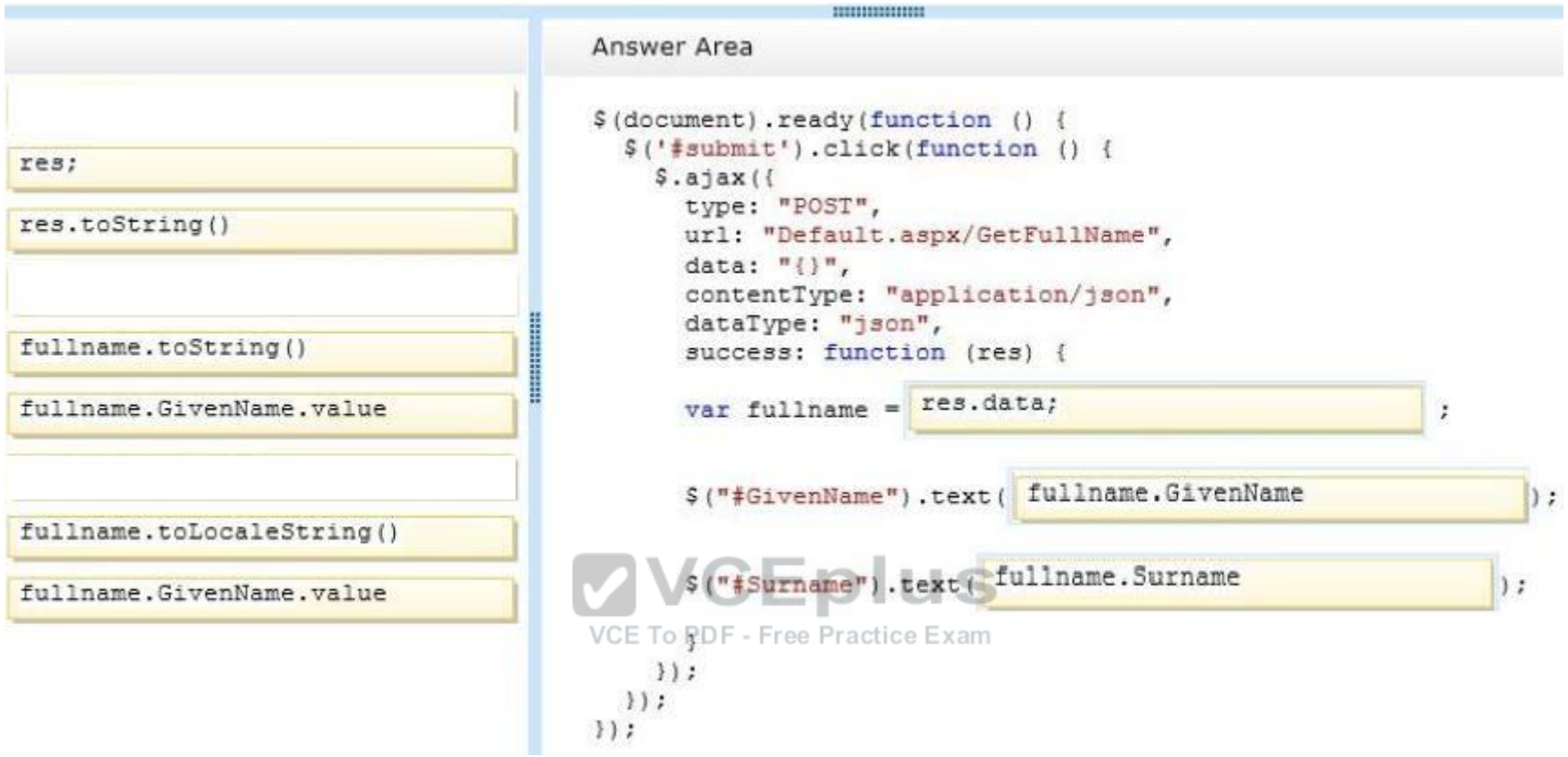

Section: (none)
Explanation

Explanation/Reference:

QUESTION 97
A company asks you to create a function that displays loan amounts to their customers.

You must create the function by using JavaScript to meet the following requirements:
Display three different loan amounts to each customer.
Display loan amounts in order starting with the greatest amount and ending with the least amount.

You need to implement the function.

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How should you complete the relevant code? (To answer, drag the appropriate command or commands to the correct location or locations in the answer area. Use only commands that apply.)

Select and Place:

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Correct Answer:

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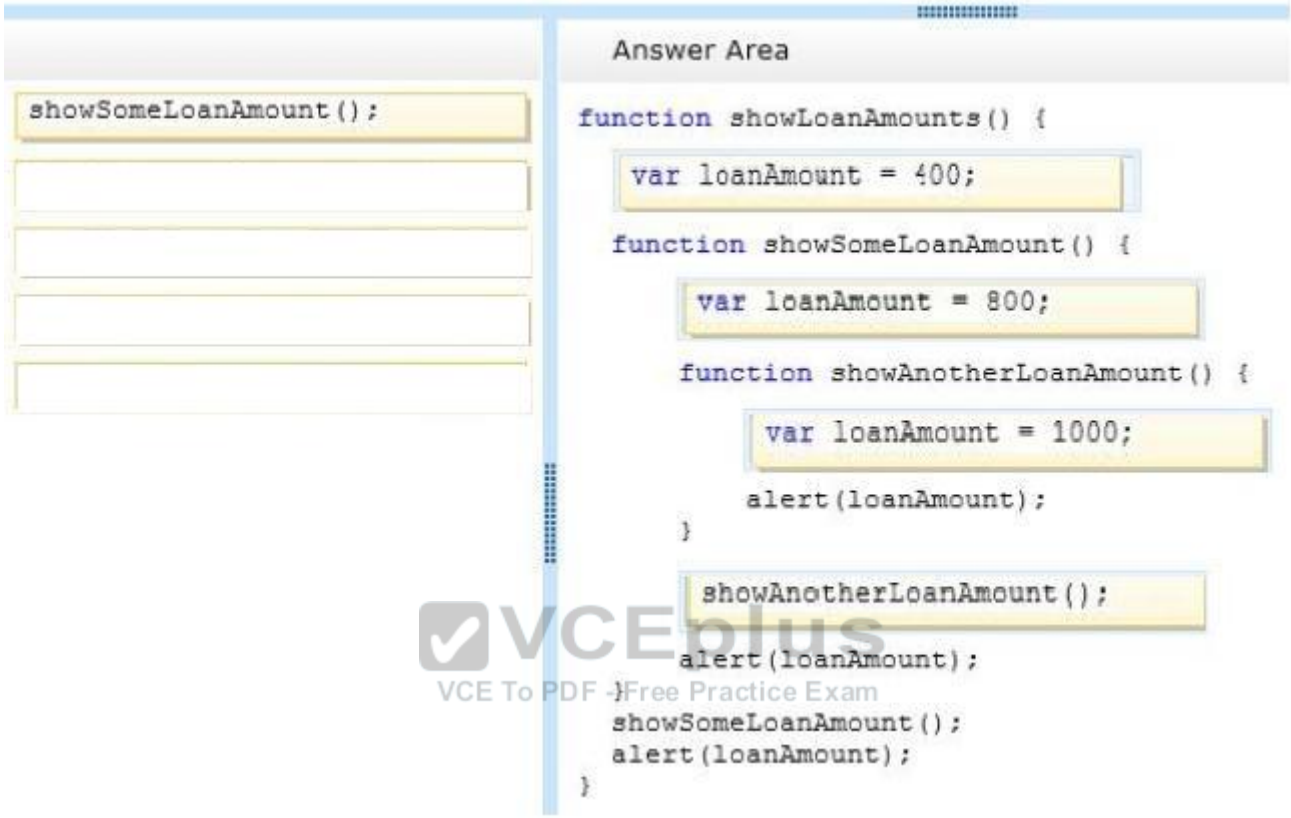

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 98
You develop an HTML5 application that allows images to be dragged and dropped within a webpage. The webpage contains a DIV element and four IMG elements as defined in the code segment below:

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```
<div ondrop="myApp.drop(this, event)" ondragenter="return false" ondragover="return false">
  <p>Fruit</p>
</div>
<p>
  <img src="apple.jpg" id="apple" alt="Apple" ondragstart="myApp.drag(this, event)" draggable="true">
  <img src="orange.jpg" id="orange" alt="Orange" ondragstart="myApp.drag(this, event)" draggable="true">
  <img src="strawberry.jpg" id="strawberry" alt="Strawberry" ondragstart="myApp.drag(this, event)"
draggable="true">
  <img src="banana.jpg" id="banana" alt="Banana" ondragstart="myApp.drag(this, event)" draggable="true">
</p>
```

You need to enable drag and drop for the application.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
var myApp = {};
  (function () {
      this.drag = function (target, e) {
          [                                    ]
      };

      this.drop = function (target, e) {
          [                                    ]
          target.appendChild(document.getElementById(id));
          e.preventDefault();
      }
  }).apply(myApp);
```

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Hot Area:

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```
var myApp = {};
  (function () {
      this.drag = function (target, e) {

          e.dataTransfer.getData('text');
          e.dataTransfer.dropEffect = 'copy';
          e.dataTransfer.effectAllowed = 'all';
          e.dataTransfer.setData('text', target.id);
      };

      this.drop = function (target, e) {

          e.dataTransfer.clearData();
          e.dataTransfer.types.contains('img');
          var id = e.dataTransfer.getData('text');
          var id = e.dataTransfer.setData('text', target.id);

          target.appendChild(document.getElementById(id));
          e.preventDefault();
      }
  }).apply(myApp);
```

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Correct Answer:

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```
var myApp = {};
  (function () {
      this.drag = function (target, e) {

          e.dataTransfer.getData('text');
          e.dataTransfer.dropEffect = 'copy';
          e.dataTransfer.effectAllowed = 'all';
          e.dataTransfer.setData('text', target.id);
      };

      this.drop = function (target, e) {

          e.dataTransfer.clearData();
          e.dataTransfer.types.contains('img');
          var id = e.dataTransfer.getData('text');
          var id = e.dataTransfer.setData('text', target.id);

          target.appendChild(document.getElementById(id));
          e.preventDefault();
      }
  }).apply(myApp);
```

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 99
You are developing an application for a retail store. The application will be used on mobile devices to provide real-time directions to the store.

You have the following requirements:
The application must find out a user's location.
As the user moves, the application must update the screen with the new location.
As the user moves, the application must display the user's speed.

You need to develop the application to meet the requirements.

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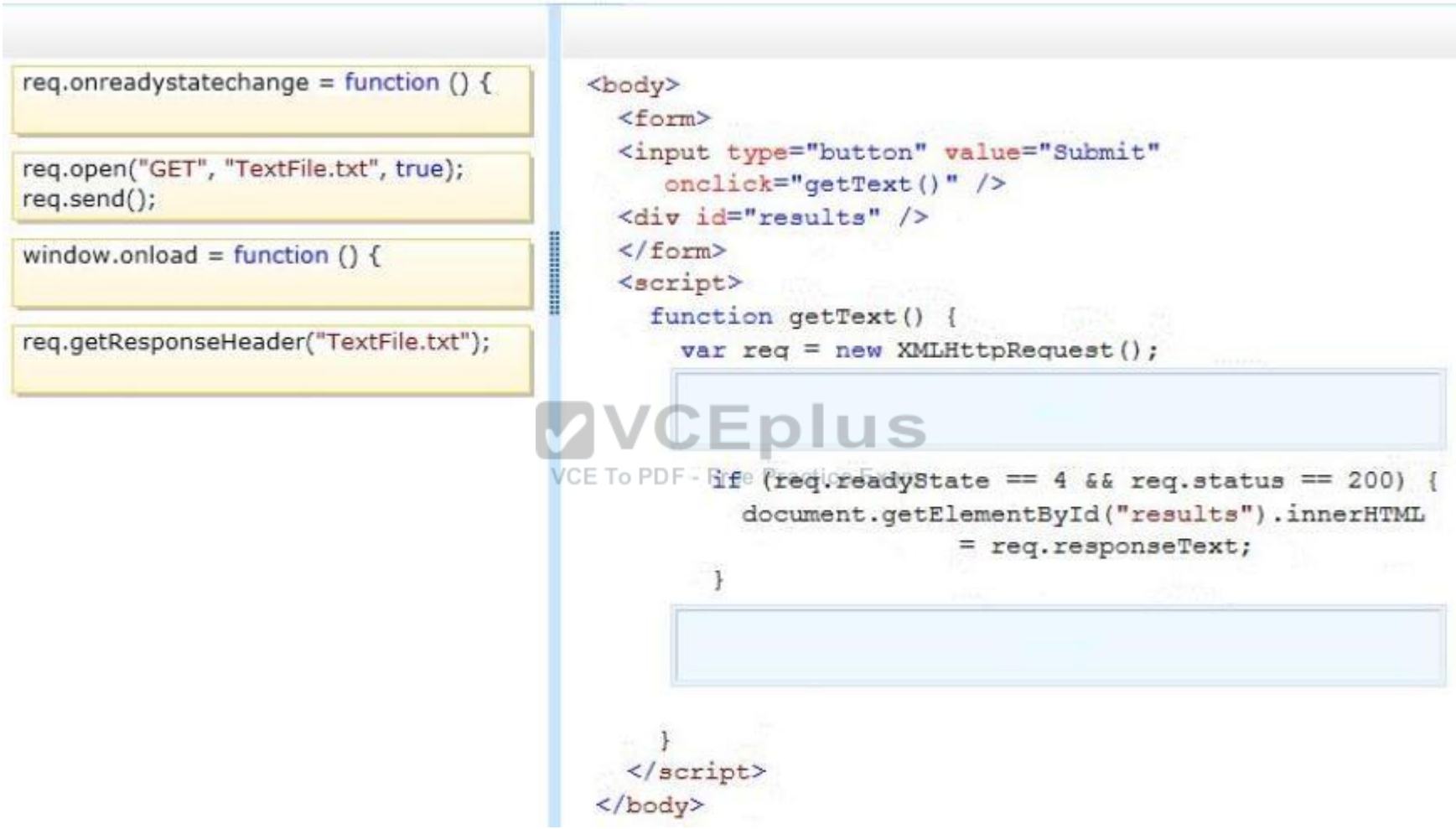
Which code segment or segments should you use? (To answer, drag the appropriate code segment or segments to the correct location in the work area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:



Correct Answer:

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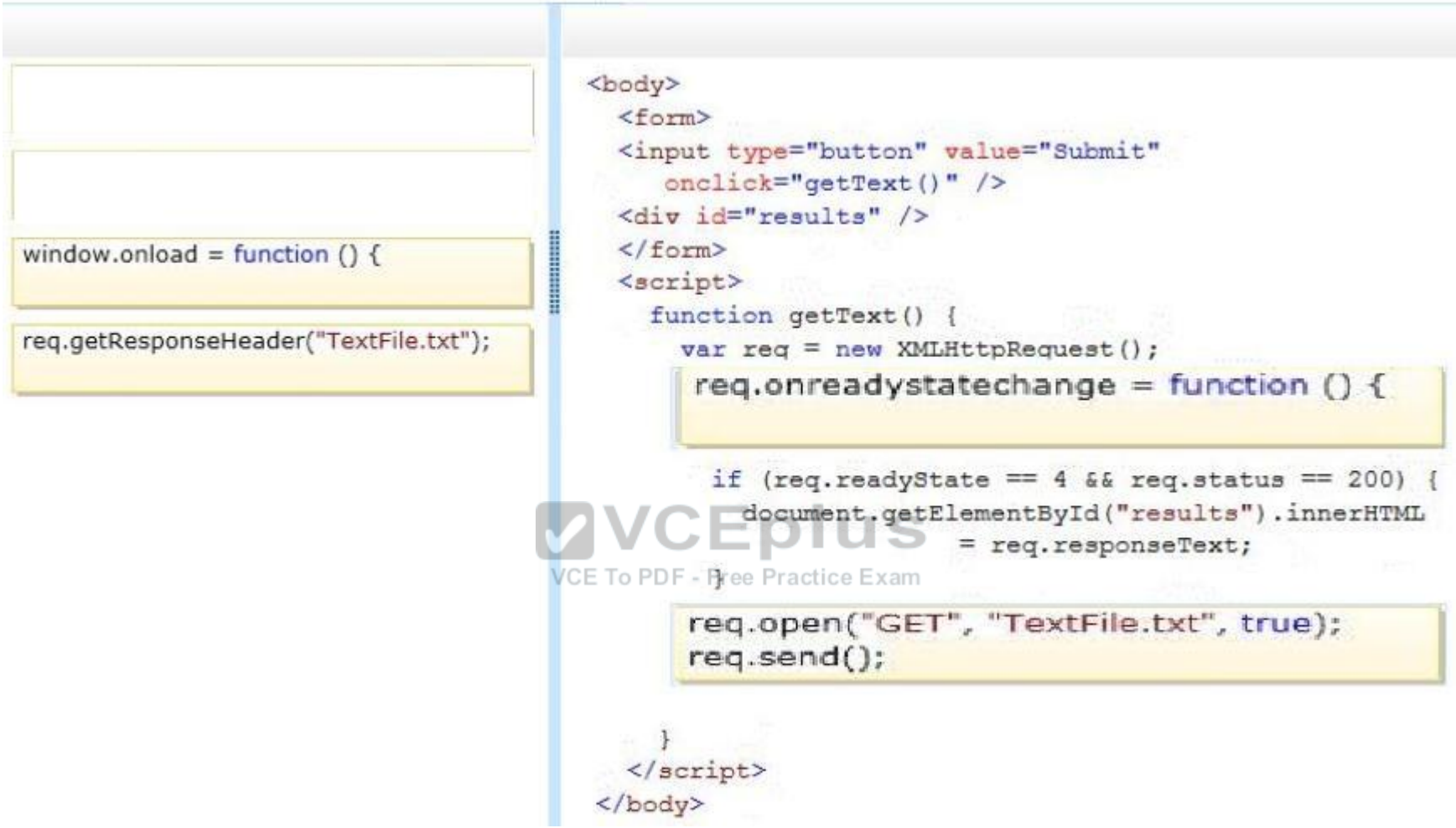

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 100
You are developing an application for a retail store. The application will be used on mobile devices to provide real-time directions to the store.

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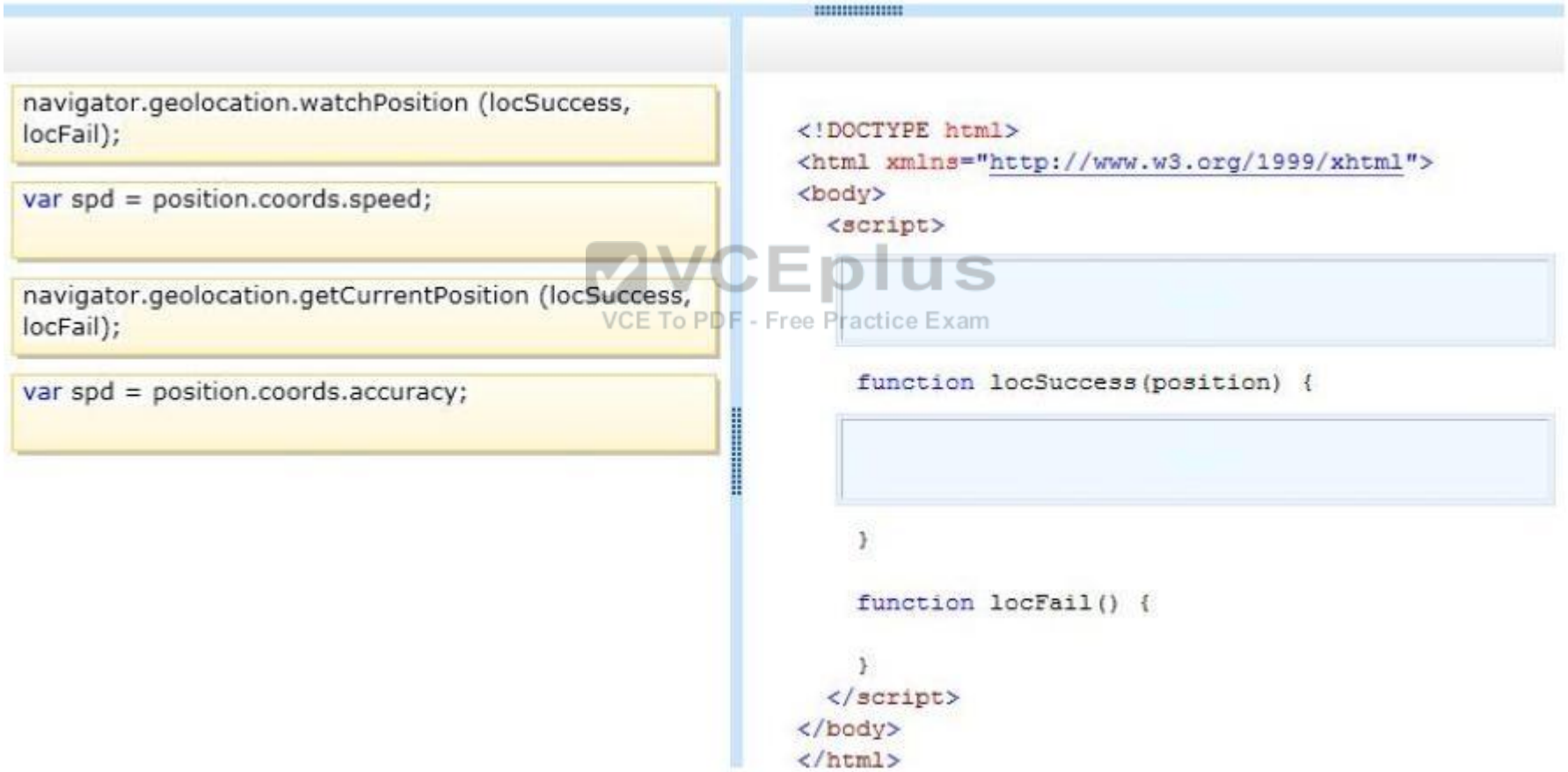
You have the following requirements:
The application must find out a user's location.
As the user moves, the application must update the screen with the new location.
As the user moves, the application must display the user's speed.

You need to develop the application to meet the requirements.

Which code segment or segments should you use? (To answer, drag the appropriate code segment or segments to the correct location in the work area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:



Correct Answer:

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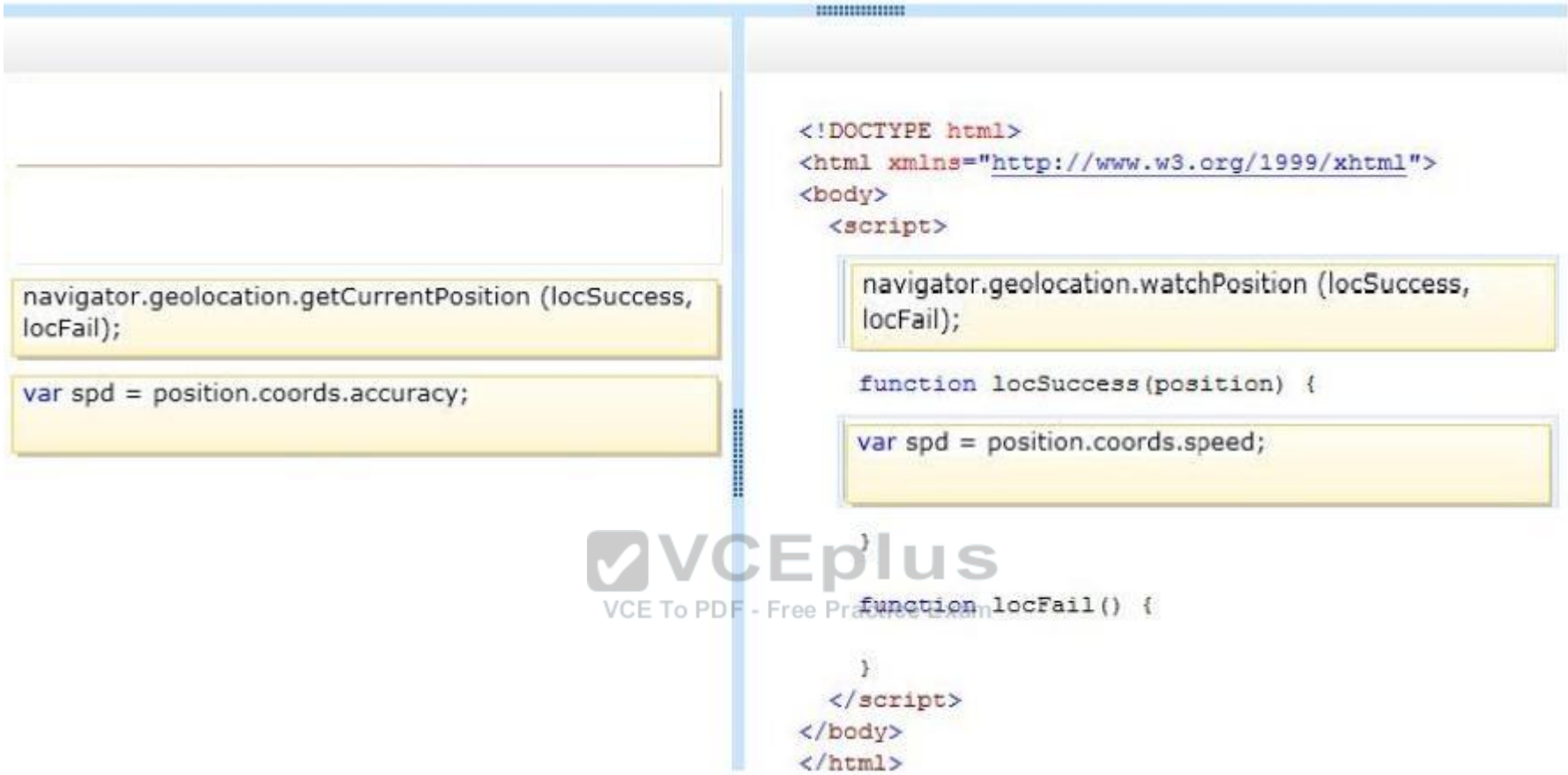

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 101
You develop a webpage. You create the following HTML markup:

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```
<!DOCTYPE html>
<html>
  <head>
    <style></style>
  </head>
  <body>
    <div id="top"></div>
    <div id="content">
      <div id="left"></div>
      <div id="main"></div>
      <div id="right"></div>
    </div>
    <div id="bottom"></div>
  </body>
</html>
```

The layout of the webpage must contain three rows. The first row spans the entire width of the page and is labeled #Top. The second row contains three columns. The first column is labeled #Left; the second column is labeled #Main; and the right column is labeled #Right. The #Left and #Right columns are a fixed width. The #Main column occupies the remaining available space. The third and final row spans the entire width of the page and is labeled #Bottom.

The layout of the webpage must resemble the following image:

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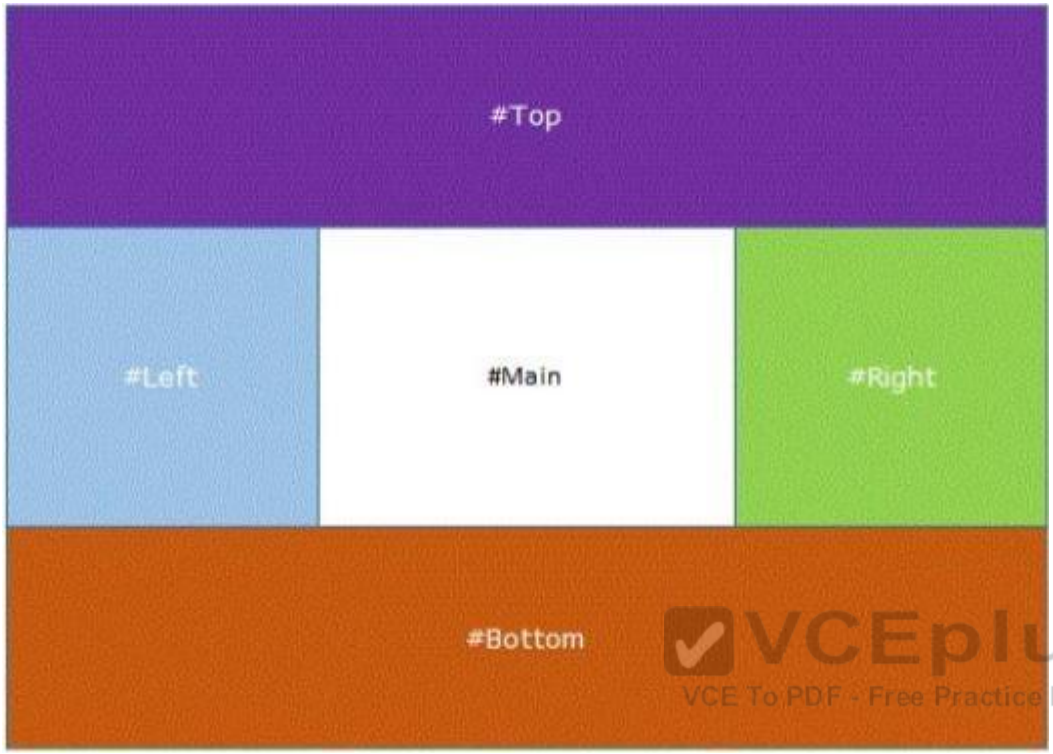

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You need to create the CSS styles to implement the layout.

How should you complete the relevant styles? (To answer, select the appropriate option from each drop-down list in the answer area.)

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```
#top {width: 100%; height: 200px;}

#content {display:

    width: 100%;
}

#content #left {width: 200px; height: 300px;}
#content #right {width: 200px; height: 300px;}

#content #main {}

#bottom {width: 100%; height: 200px;}
```

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Hot Area:

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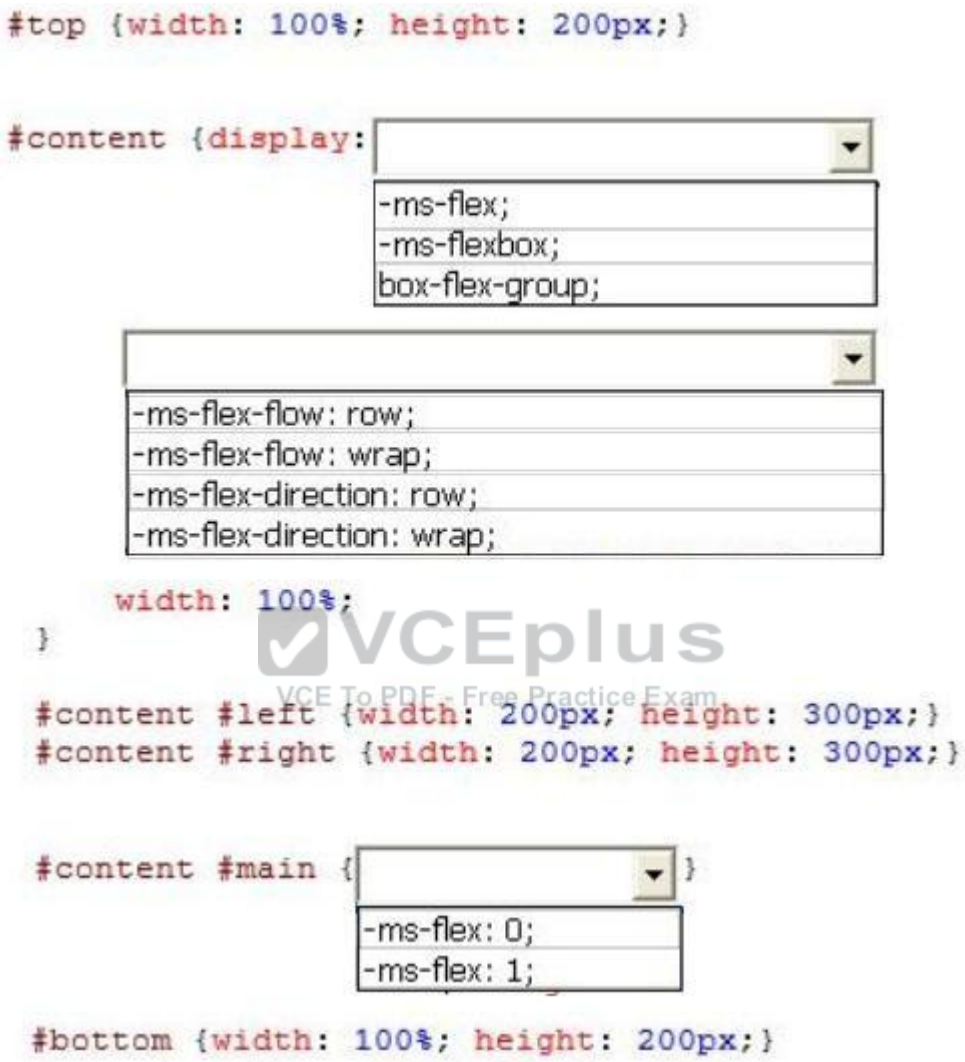

Correct Answer:

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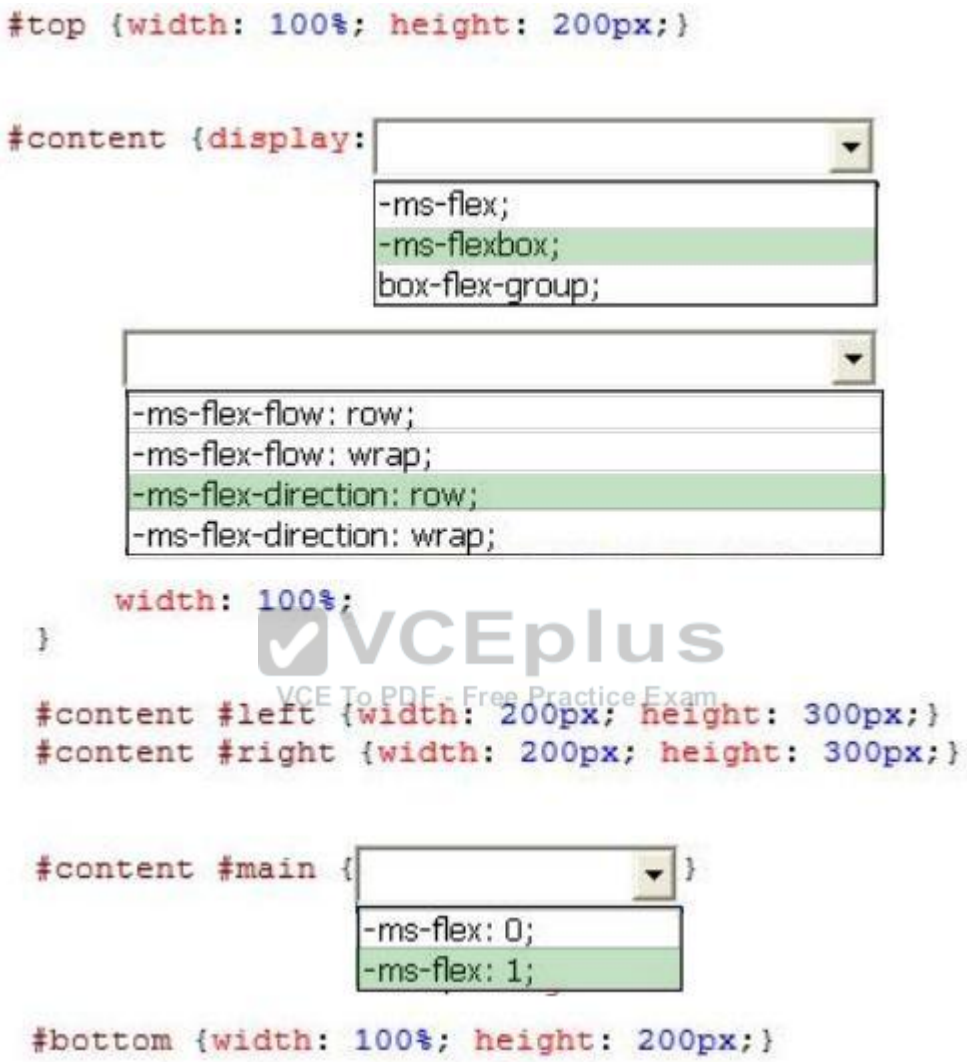

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Section: (none)
Explanation

Explanation/Reference:

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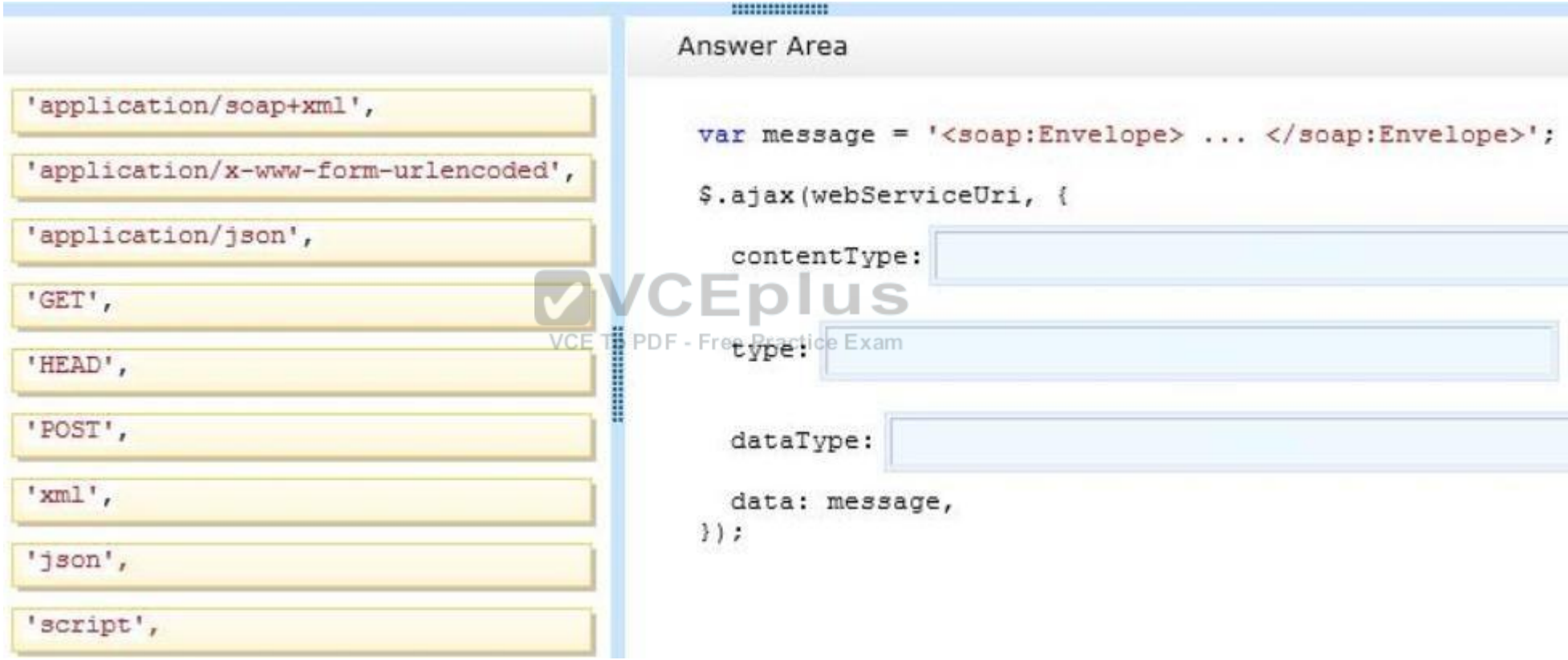
QUESTION 102
You develop an HTML application that calls a Simple Object Access Protocol (SOAP) web service to retrieve data.

You need to load data from the web service.

What should you do? (To answer, drag the appropriate code segment or code segments to the correct location or locations in the answer area. Use only code segments that apply.)

Select and Place:



Correct Answer:

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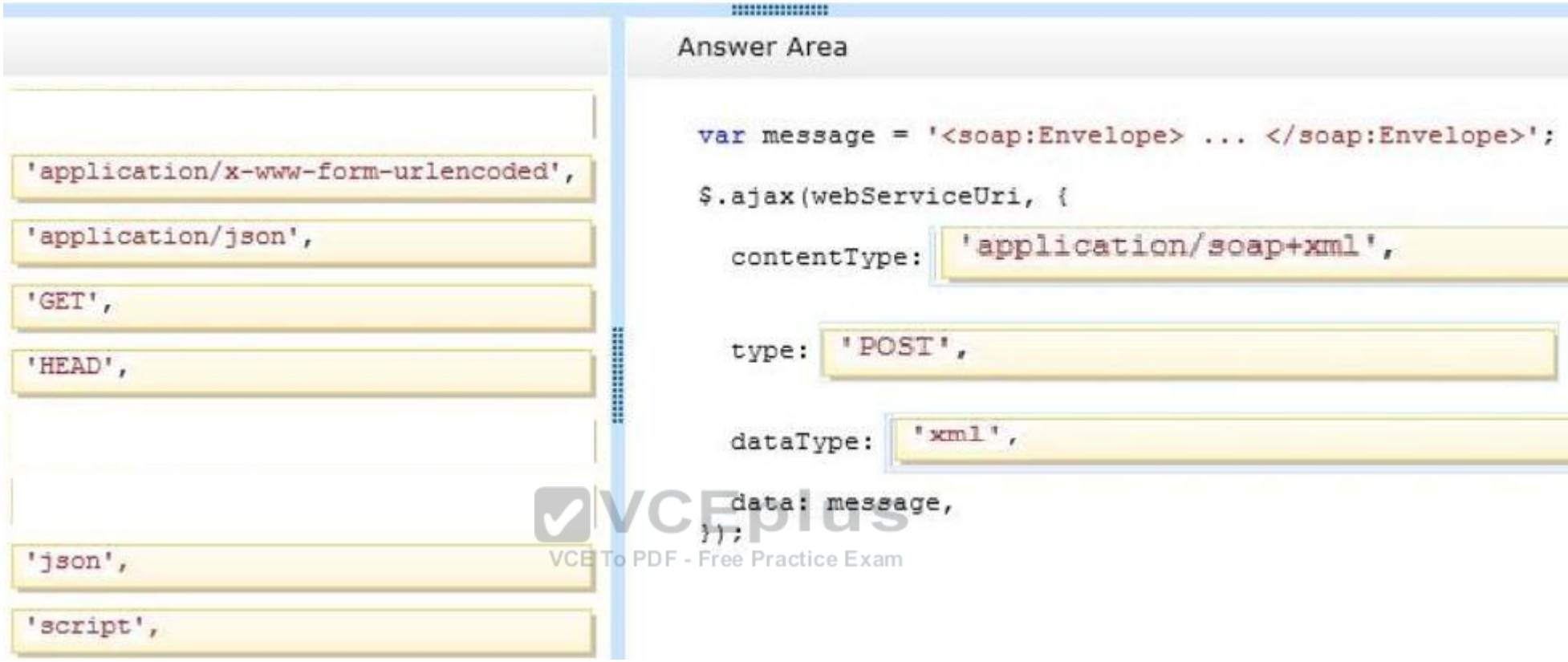

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 103
You are creating a custom style by using CSS3.

You have the following requirements to complete the style:
If the text in a line must wrap to another line, the last word must be able to break across lines.
All text must be black and have a blue shadow, such that the text appears to glow blue.

The text must look like the following:

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You need to complete the CSS3 style.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<style>
    p {
        [ ]
        [ ]
    }
</style>
```

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Hot Area:

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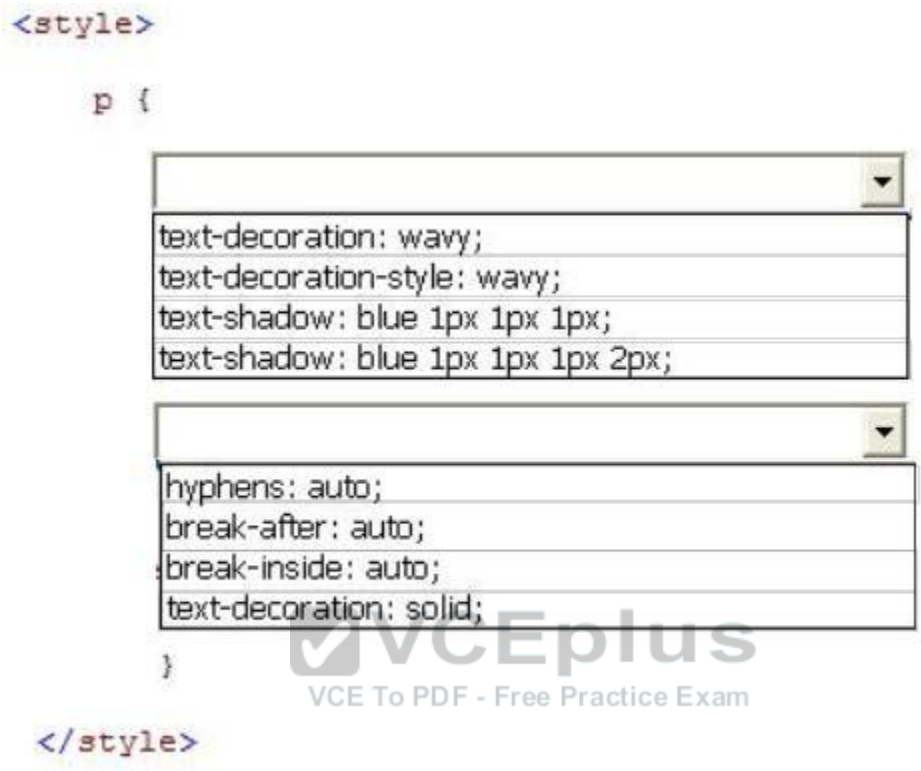

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Correct Answer:

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```
<style>
    p {
        [ ]
        [text-decoration: wavy;
        [text-decoration-style: wavy;
        [text-shadow: blue 1px 1px 1px;
        [text-shadow: blue 1px 1px 1px 2px;
        [ ]
        [hyphens: auto;
        [break-after: auto;
        [break-inside: auto;
        [text-decoration: solid;
        }
</style>
```

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 104
You are developing a web page.

The webpage must display a container. The container must display three colored rectangles near the top of the container. The colored rectangles are, in order, green, red, and yellow. The rectangles are aligned horizontally and evenly spaced across the width of the container.

The layout of the page must resemble the following image:

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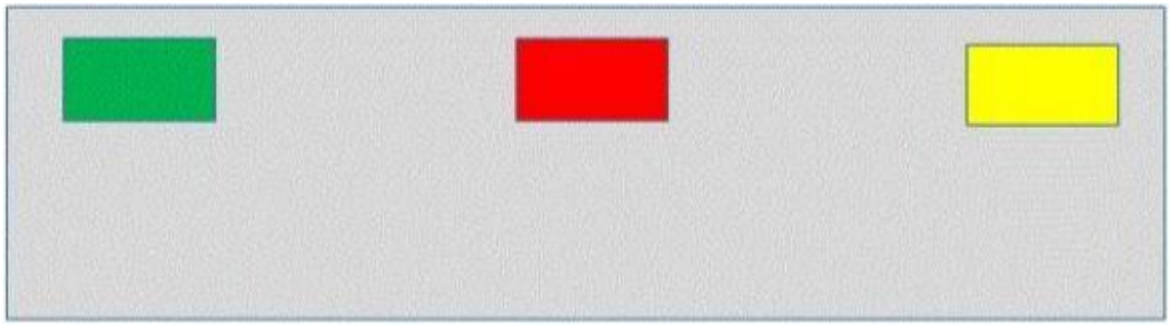

You need to ensure that the page renders properly.

How should you complete the relevant styles? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<style>
  .box {
    display: -ms-flexbox;
    -ms-flex-direction: row;

    -ms-flex-align: [          ];

    -ms-flex-pack: [           ];

    width: 550px;
    height: 400px;
  }
</style>
```

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Hot Area:

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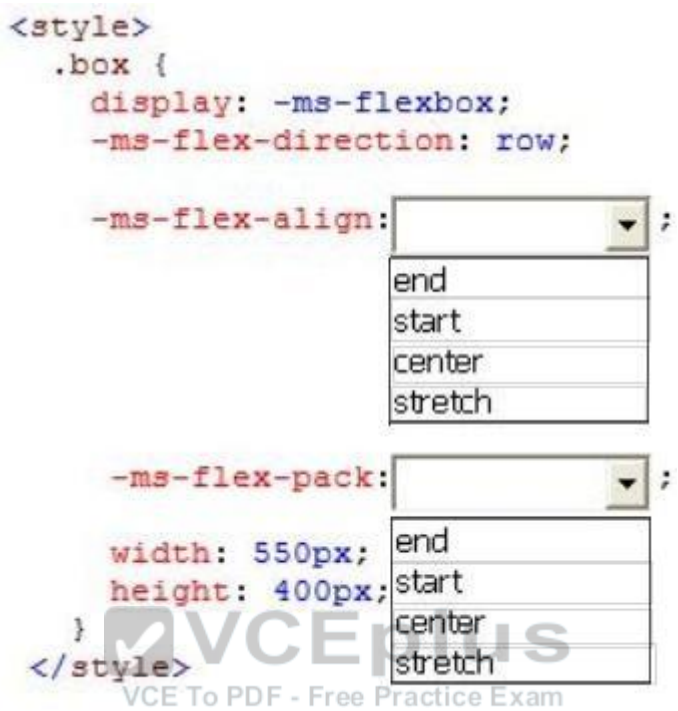

Correct Answer:

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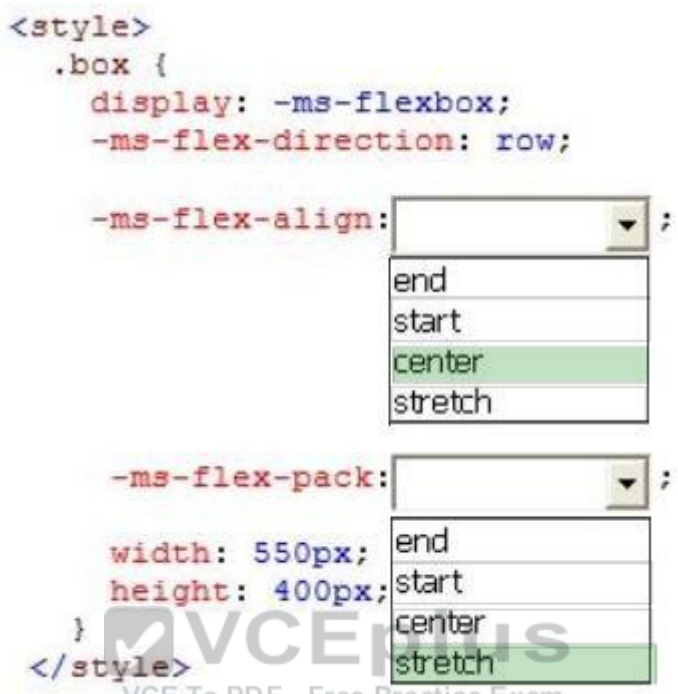

Section: (none)
Explanation

Explanation/Reference:

QUESTION 105
You create the following JavaScript code:

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```
var myApplication = myApplication || {};
myApplication.LoanCalculator = function (displayControl, principle, term, rate) {
  this.Principle = principle;
  this.Term = term;
  this.Rate = rate / 1200;
  this.PaymentAmount = 0;
  this.showPayment = document.getElementById(displayControl);
};
myApplication.LoanCalculator.prototype = {
  CalculatePayment: function () {
    this.PaymentAmount = (this.Principle * this.Rate / (1 - (Math.pow(1/(1 + this.Rate), this.Term)))).toFixed(2);
    this.showPayment.innerHTML = '$' + this.PaymentAmount;
  },
  ShowCanWeAfford: function () {
  }
};
```

You must complete the ShowCanWeAfford() function:
Display the message Denied! If the PaymentAmount variable is greater than 500.
Display the message Approved! If the PaymentAmount variable is less than 300.
Display the message Approved with caution! If the PaymentAmount variable is less than 500 and greater than 300.

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You need to add statements to the ShowCanWeAfford() JavaScript function to meet the requirements.

Which three actions should you perform in sequence? (Develop the solution by selecting the required code segments and arranging them in the correct order.)

Select and Place:

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Answer Area

```
else if (this.PaymentAmount || 300) {
  alert('Approved!');
}
```

```
else if (this.PaymentAmount > 500 &&
this.PaymentAmount < 300) {
  alert('Approved with caution!');
}
```

```
else if (this.PaymentAmount < 300) {
  alert('Approved!');
}
```

```
if (this.PaymentAmount > 500) {
  alert('Denied!');
}
```

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```
if (this.PaymentAmount >= 500) {
  alert('Denied!');
}
```

```
else {
  alert('Approved with caution!');
}
```

```
if (this.PaymentAmount >> 500) {
  alert('Denied!');
}
```

```
else if (this.PaymentAmount << 300) {
  alert('Approved!');
}
```

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Correct Answer:

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Answer Area

```
else if (this.PaymentAmount || 300) {
  alert('Approved!');
}
```

```
if (this.PaymentAmount > 500) {
  alert('Denied!');
}
```

```
if (this.PaymentAmount >= 500) {
  alert('Denied!');
}
```

```
if (this.PaymentAmount >> 500) {
  alert('Denied!');
}
```

```
else if (this.PaymentAmount << 300) {
  alert('Approved!');
}
```

```
else if (this.PaymentAmount > 500 &&
this.PaymentAmount < 300) {
  alert('Approved with caution!');
}
```

```
else if (this.PaymentAmount < 300) {
  alert('Approved!');
}
```

```
else {
  alert('Approved with caution!');
}
```

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Section: (none)
Explanation

Explanation/Reference:
Note:
Use > for greater than comparison.
Use < for less than comparison.

QUESTION 106
You have a webpage that includes the following markup:

```
<!DOCTYPE html>
<html>
  <head>
    <script>
    </script>
  </head>
  <body onload="readXMLFile()">
    <div id="to"></div>
    <div id="from"></div>
    <div id="message"></div>
  </body>
</html>
```

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An XML file named message.xml resides on a web server. The structure of the file is as follows:

```
<?xml version="1.0" encoding="utf-8"?>
<messages>
  <to>JHartono@contoso.com</to>
  <from>JDow@contoso.com</from>
  <message>Meeting is cancelled</message>
</messages>
```

You are developing a code-based solution to parse the contents of the XML file and display the information on the page.

The solution must work on both modern and older browsers.

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You need to display the information from the XML file onto the page.

How should you create the JavaScript code? (Develop the solution by selecting the required code segments and arranging them in the correct order. You may not need all of the code segments.)

Select and Place:

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Answer Area

```
document.getElementById("to").innerHTML =
 xmlDoc.getElementsByTagName("to")
[0].childNodes[0].nodeValue;
document.getElementById("from").innerHTML =
 xmlDoc.getElementsByTagName("from")
[0].childNodes[0].nodeValue;
document.getElementById("message").innerHTML
=
 xmlDoc.getElementsByTagName("body")
[0].childNodes[0].nodeValue;}
```

```
xmlhttp = new ActiveXObject
("Microsoft.XMLHTTP");}
```

```
else {
```

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```
xmlhttp = new XMLHttpRequest();}
```

```
xmlhttp.open("GET", "message.xml", false);
```

```
if (window.XMLHttpRequest) {
```

```
xmlDoc = xmlhttp.responseXML;
```

```
function readXMLFile() {
```

```
xmlhttp.send();
```

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Correct Answer:

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Answer Area

```
document.getElementById("to").innerHTML =
 xmlDoc.getElementsByTagName("to")
[0].childNodes[0].nodeValue;
document.getElementById("from").innerHTML =
 xmlDoc.getElementsByTagName("from")
[0].childNodes[0].nodeValue;
document.getElementById("message").innerHTML
=
 xmlDoc.getElementsByTagName("body")
[0].childNodes[0].nodeValue;}
```

```
function readXMLFile() {
```

```
if (window.XMLHttpRequest) {
```

```
xmlhttp = new XMLHttpRequest();}
```

```
else {
```

```
xmlhttp = new ActiveXObject
("Microsoft.XMLHTTP");}
```

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```
xmlhttp.open("GET", "message.xml", false);
```

```
xmlhttp.send();
```

```
xmlDoc = xmlhttp.responseXML;
```

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Section: (none)
Explanation

Explanation/Reference:
Parse an XML Document
Example. The following code fragment parses an XML document into an XML DOM object:

```
if (window.XMLHttpRequest)
  {// code for IE7+, Firefox, Chrome, Opera, Safari
  xmlhttp=new XMLHttpRequest();
  }
else
  {// code for IE6, IE5
  xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
  }
xmlhttp.open("GET","books.xml",false);
xmlhttp.send();
xmlDoc=xmlhttp.responseXML;
```

QUESTION 107
You review a web form that contains the following markup and code:

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```
<!DOCTYPE html>
<html>
  <head>
    <script type="text/javascript">
      function check1(currentTextBox) {
        if (currentTextBox.value === null || currentTextBox.value === '')
          currentTextBox.style.background = '#fffacd';
        else
          currentTextBox.style.background = '#ffffff';
      }
      function check2() {
        var obj = document.getElementsByTagName('input');
        for (var i = 0; i < (obj.length - 1); i++) {
          obj[i].style.background = '#fffacd';
        }
      }
    </script>
  </head>
  <body>
    <input type="text" id="text1" onfocus="check1(this)" onblur="check1(this)">
    <input type="text" id="text2" onfocus="check1(this)" onblur="check1(this)">
    <input type="button" value="next" onclick="check2()">
  </body>
</html>
```

You need to ascertain how the webpage responds when it loads and how it reacts to user actions.

For each statement in the table, select Yes if the code segment above causes the page to behave as described. Select No if it does not. Make only one selection in each column.

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Yes	No	Description of behavior
○	○	Both text boxes are displayed with a yellow background when the page loads.
○	○	The background color of both text boxes changes to yellow each time the text boxes receive the focus.
○	○	If a text box contains a value, the background color of the text box changes to white each time the text box loses the focus.

Correct Answer:

Yes	No	Description of behavior
○	●	Both text boxes are displayed with a yellow background when the page loads.
○	●	The background color of both text boxes changes to yellow each time the text boxes receive the focus.
●	○	If a text box contains a value, the background color of the text box changes to white each time the text box loses the focus.

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 108
You test a webpage that contains the following JavaScript code:

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```
<script type="text/javascript">
  onerror = unhandled;
  function unhandled(msg, url, line) {
    alert('There has been an unhandled exception.');
  }
  function add() {
    alert($("#int1").val() + $("#int2").val());
  }
  function divide() {
    if (isNaN($("#int1").val()) || isNaN($("#int2").val())) {
      throw('One or more values are non-numeric');
    }
    alert($("#int1").val() / $("#int2").val());
  }
</script>
```

The webpage also contains the following markup

```
Integer 1: <input type="text" id="int1" /><br />
Integer 2: <input type="text" id="int2" /><br /><br />
<input type="button" name="add" value="Add" onclick="add();" />
<input type="button" name="divide" value="Divide" onclick="divide();" />
```

You need to ascertain how the webpage responds when the user enters characters and then clicks the add and divide buttons.

For each statement in the table, select Yes if the action causes the webpage to behave as described. Select No if it does not. Make only one selection in each column.

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Yes	No	Description of Behavior
○	○	If the user enters the number **2** in the **int1** textbox, the number **3** in the **int2** textbox, and then clicks the **add** button, the webpage displays an alert message with a value of 5.
○	○	If the user enters the number **2** in the **int1** textbox, the number **0** in the **int2** textbox, and then clicks the **divide** button, the unhandled JavaScript function runs.
○	○	If the user enters the number **2** in the **int1** textbox, the letter **a** in the **int2** textbox, and then clicks the **divide** button, the unhandled JavaScript function runs.

Correct Answer:

Yes	No	Description of Behavior
○	○	If the user enters the number **2** in the **int1** textbox, the number **3** in the **int2** textbox, and then clicks the **add** button, the webpage displays an alert message with a value of 5.
○	○	If the user enters the number **2** in the **int1** textbox, the number **0** in the **int2** textbox, and then clicks the **divide** button, the unhandled JavaScript function runs.
○	○	If the user enters the number **2** in the **int1** textbox, the letter **a** in the **int2** textbox, and then clicks the **divide** button, the unhandled JavaScript function runs.

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 109
You troubleshoot a webpage that includes the following code segment:

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```
var customer = function () {
  var name = "Contoso";
  return {
    getName: function () {
      return name;
    },
    setName: function (newName) {
      name = newName;
    }
  };
}();
alert(customer.name);
```

You need to evaluate the value of the variable named customer.name.

For each statement in the table, select Yes if the code segment above causes the variable to evaluate as described. Select No if it does not. Make only one selection in each column.

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Yes	No	Description of customer.name variable
○	○	An error will be thrown
○	○	Contoso
○	○	undefined
○	○	null
○	○	false

Correct Answer:

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Yes	No	Description of customer.name variable
○	○	An error will be thrown
○	○	Contoso
○	○	undefined
○	○	null
○	○	false

Section: (none)
Explanation

Explanation/Reference:

QUESTION 110
You develop an HTML5 webpage that contains the following markup and code:

```
<form>
  <label for='city'>City:</label>
  <select id='city'>
    <option>Please Choose</option>
    <option>Moscow</option>
    <option>London</option>
    <option>Paris</option>
  </select>
  <input type='button' id='submit' value='Submit'
   onclick="madeSelection(document.getElementById('city'), 'Please Select A City')" />
</form>
```

You have the following requirements:
Display a message if users select the first OPTION element, and then submit the form.
Do not display an alert message if users select any other OPTION element, and then submit the form.

You need to implement the madeSelection() function.

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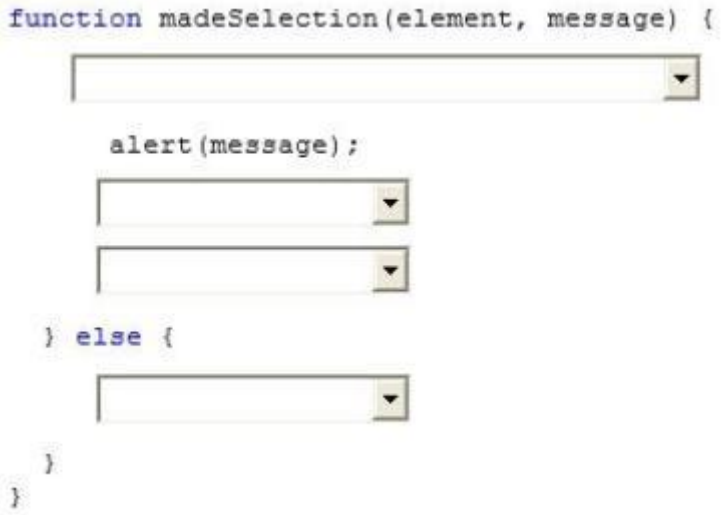
How should you complete the relevant code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)



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```
function madeSelection(element, message) {
    [ ]
        if (element.id === 0) {
        if (element.value == "-1") {
        if (element.text === "Please Choose") {
        if (element.value === "Please Choose") {
        alert(message);
        [ ]
            element.clear();
            element.focus();
        [ ]
            return true;
            return false;
    } else {
        [ ]
            return true;
            return false;
    }
}
```

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Correct Answer:

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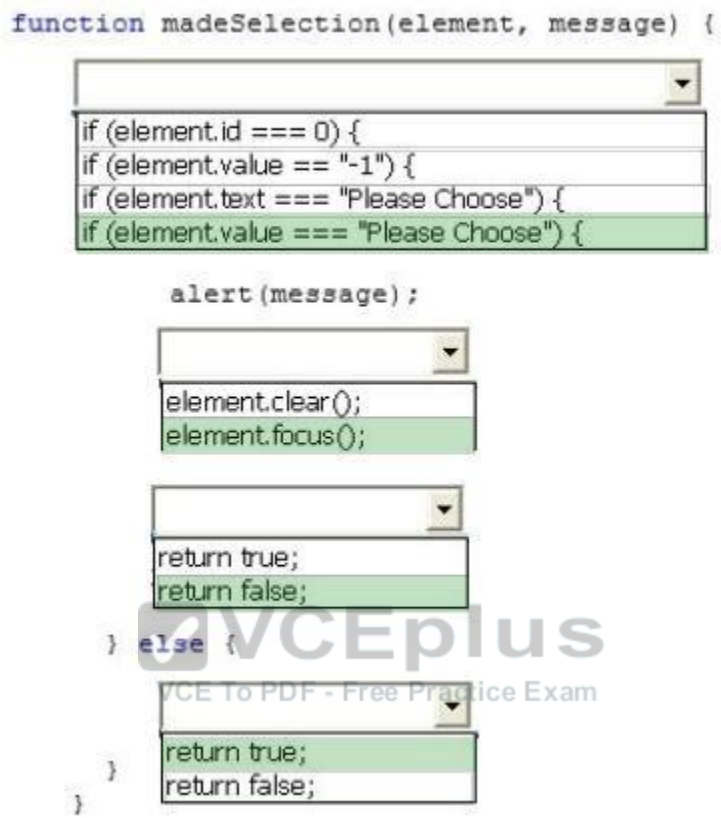

Section: (none)
Explanation

Explanation/Reference:

QUESTION 111
You develop a webpage that consumes a web service. The web service provides currency exchange rates. Visitors enter the currency type on the webpage and press the Submit button.
The web service returns the current exchange rate.

You need to ensure that the webpage always displays the most current information.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

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```
<script type="text/javascript">
  var currencyRate;
  function getExchangeRate(){

    $.[          ]({

      cache:[          ],

      type: 'GET',
      url: "CurrencyConverter.asmx/GetExchangeRate",
      data: { 'currencyType': getCurrencyType() },
      dataType: 'json',
      success: function (result) {
        currencyRate = result;
      }
    });
  }

  function getCurrencyType() {
    return "USD";
  }
</script>
```

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Hot Area:

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```
<script type="text/javascript">
  var currencyRate;
  function getExchangeRate(){

    $.[ajax|json](({

      cache:[true|false],

        type: 'GET',
        url: "CurrencyConverter.asmx/GetExchangeRate",
        data: { 'currencyType': getCurrencyType() },
        dataType: 'json',
        success: function (result) {
          currencyRate = result;
        }
      });
  }

  function getCurrencyType() {
    return "USD";
  }
</script>
```

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Correct Answer:

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```
<script type="text/javascript">
  var currencyRate;
  function getExchangeRate(){

    $.[ajax|json]({

      cache:[true|false],

       type: 'GET',
       url: "CurrencyConverter.asmx/GetExchangeRate",
       data: { 'currencyType': getCurrencyType() },
       dataType: 'json',
       success: function (result) {
         currencyRate = result;
       }
     });
  }

  function getCurrencyType() {
    return "USD";
  }
</script>
```

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 112
You develop a webpage.
The layout of the webpage must resemble the following image:

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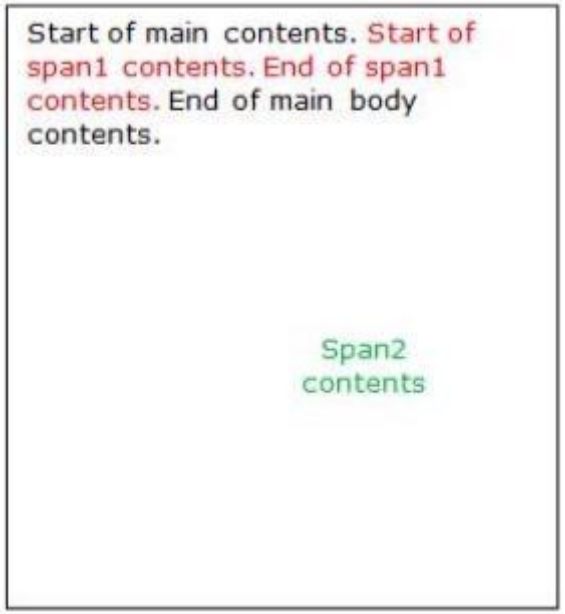

You need to ensure that the page renders properly.

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How should you complete the relevant CSS styles? (To answer, select the appropriate option from each drop-down list in the answer area.)

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```
<!DOCTYPE html>
  <head>
    <style>

      #span1 {                    ; color: red;}


      #span2 {                    ; top: 200px;

       left: -100px; height: 130px; width: 130px;
       color: green;}
    </style>
  </head>
  <body>
    <p>Start of main contents.
      <span id=span1> Start of span1 contents.
      <span id=span2> Span2 contents.</span>
      End of span1 contents.</span>
      End of main contents.
    </p>
  </body>
</html>
```

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```
<!DOCTYPE html>
  <head>
    <style>

      #span1 {[                    ]; color: red;}
              z-index: 1
              float: left
              position: relative
              position: absolute

      #span2 {[                    ]; top: 200px;
              z-index: 2
              float: right
              position: relative
              position: absolute

       left: -100px; height: 130px; width: 130px;
       color: green;}
    </style>
  </head>
  <body>
    <p>Start of main contents.
      <span id=span1> Start of span1 contents.
      <span id=span2> Span2 contents.</span>
      End of span1 contents.</span>
      End of main contents.
    </p>
  </body>
</html>
```

Correct Answer:

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```
<!DOCTYPE html>
  <head>
    <style>

      #span1 {[                    ]; color: red;}
                z-index: 1
                float: left
                position: relative
                position: absolute

      #span2 {[                    ]; top: 200px;
                z-index: 2
                float: right
                position: relative
                position: absolute

       left: -100px; height: 130px; width: 130px;
       color: green;}
    </style>
  </head>
  <body>
    <p>Start of main contents.
      <span id=span1> Start of span1 contents.
      <span id=span2> Span2 contents.</span>
      End of span1 contents.</span>
      End of main contents.
    </p>
  </body>
</html>
```

Section: (none)
Explanation

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Explanation/Reference:

QUESTION 113
A company has an XML file named products.xml on a web server. The file contains a list of the products that the company sells.

You need to display the contents of the products.xml file in a DIV element named Output.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<html>
  <head>
    <script lang="JavaScript">
     function DataHandler()
        var webReq = new XMLHttpRequest; {

        if (webReq.[          ] == [          ]) {

          if (webReq.status == [          ]) {

            document.getElementById("Output").innerHTML =
             (webReq.responseText);}}}
        var webReq = getXMLHttpRequest();
          if (webReq != null) {
            webReq.open
            ("GET", "http://localhost/products.xml", true);
            webReq.onreadystatechange = DataHandler;
            webReq.send();}
    </script>
  </head>
  <body>
    <div id="Output"> </div>
  </body>
</html>
```

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```
<html>
  <head>
    <script lang="JavaScript">
     function DataHandler()
        var webReq = new XMLHttpRequest; {

        if (webReq.[ ▾ ] == [ ▾ ]) {
```

abort	false
open	true
status	2
readyState	3
	4

```
          if (webReq.status == [ ▾ ]) {
```

100
200
400
500

```
            document.getElementById("Output").innerHTML =
             (webReq.responseText);}}}
        var webReq = getXMLHttpRequest();
          if (webReq != null) {
            webReq.open
            ("GET", "http://localhost/products.xml", true);
            webReq.onreadystatechange = DataHandler;
            webReq.send();}
    </script>
  </head>
  <body>
    <div id="Output"> </div>
  </body>
</html>
```

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Correct Answer:

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```
<html>
  <head>
    <script lang="JavaScript">
     function DataHandler()
        var webReq = new XMLHttpRequest; {

        if (webReq.[ ▾ ] == [ ▾ ]) {
```

abort
open
status
readyState

false
true
2
3
4

```
          if (webReq.status == [ ▾ ]) {
```

100
200
400
500

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```
            document.getElementById("Output").innerHTML =
             (webReq.responseText);}}}
        var webReq = getXMLHttpRequest();
          if (webReq != null) {
            webReq.open
            ("GET", "http://localhost/products.xml", true);
            webReq.onreadystatechange = DataHandler;
            webReq.send();}
    </script>
  </head>
  <body>
    <div id="Output"> </div>
  </body>
</html>
```

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 114
You are developing a shared library to format information. The library contains a method named _private.

The _private method must never be called directly from outside of the shared library.

You need to implement an API for the shared library.

How should you complete the relevant code? (Develop the solution by selecting the required code segments and arranging them in the correct order. You may not need all of the code segments.)

Select and Place:

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Answer Area

```
Formatter.prototype.parseValue =
function (input) {
  return _private(input);
}
```

```
prototype.parseValue = _private(input);
```

```
this._private = function (data) {
  return custom(data);
}
```

```
}
```

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```
return {
  parseValue: function (input)
{ return _private(); }
}
```

```
function getFormatter() {
```

```
var _private = function (data) {
  return custom(data);
};
```

```
this.parseValue = function (input) {
  return _private(input);
};
```

```
$('#parseValue') = function (input) {
  return _private(input);
};
```

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Correct Answer:

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Answer Area

```
prototype.parseValue = _private(input);
```

```
return {
  parseValue: function (input)
{ return _private(); }
}
```

```
var _private = function (data) {
  return custom(data);
};
```

```
this.parseValue = function (input) {
  return _private(input);
};
```

```
function getFormatter() {
```

```
Formatter.prototype.parseValue =
function (input) {
  return _private(input);
}
```

```
this._private = function (data) {
  return custom(data);
}
```

```
}
```

```
$('#parseValue') = function (input) {
  return _private(input);
};
```

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Section: (none)
Explanation

Explanation/Reference:
* Here there is a basic example:

```
// our constructor
function Person(name, age){
    this.name = name;
    this.age  = age;
};

// prototype assignment
Person.prototype = (function(){

    // we have a scope for private stuff
    // created once and not for every instance
    function toString(){
        return this.name + " is " + this.age;
    };

    // create the prototype and return them
    return {

        // never forget the constructor ...
        constructor:Person,

        // "magic" toString method
        toString:function(){

            // call private toString method
            return toString.call(this);
        }
    };
})();
```

* Example:
You can simulate private methods like this:

```
function Restaurant() {
}
```

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```
Restaurant.prototype = (function() {
    var private_stuff = function() {
        // Private code here
    };

    return {

        constructor:Restaurant,

        use_restroom:function() {
            private_stuff();
        }

    };
})();

var r = new Restaurant();

// This will work:
r.use_restroom();

// This will cause an error:
r.private_stuff();
```

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QUESTION 115
You develop an interactive scalable vector graphics (SVG) application. You write the following HTML markup that makes a rectangle rotate:

```
<svg width="200px" height="200px">
  <g transform="translate(400, 400)" id="myImage">
    <rect id="mySquare" x="-10" y="-10" width="20" height="20" color="blue" />
  </g>
</svg>
<input id="speed" type="text" value="10" />
<button id="zoom" onclick="startAnimation();">Start</button>
```

You need to control the speed of the rotating rectangle.
How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

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```
<script>
    var squareShape;
    var myTimer;

    function startAnimation () {

        squareShape=

        squareShape.currentTheta = 0;

        myTimer=

        animateImage();
    }

    function animateImage() {

          + squareShape.currentTheta + ")";
        squareShape.currentTheta += 0.1;
    }
</script>
```

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```
<script>
    var squareShape;
    var myTimer;

    function startAnimation () {

        squareShape=
                    document.myImage;
                    document.mySquare;
                    document.getElementById("myImage");
                    document.getElementById("mySquare");

         squareShape.currentTheta = 0;

         myTimer=
                    speed.value;
                    myTimer.interval (speed.value);
                    setTimer(animateImage, speed.value);
                    new timer(animateImage, speed.value);

            animateImage();
        }

        function animateImage() {

                    setInterval(animateImage, speed.value);
                    squareShape.setAttribute("rotate", "angle("
                    squareShape.setAttribute("transform", "angle("
                    squareShape.setAttribute("transform", "rotate("
                    squareShape.setAttribute("mySquare", "transform("

                + squareShape.currentTheta + ")");
            squareShape.currentTheta += 0.1;
        }
    </script>
```

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Correct Answer:

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```
<script>
    var squareShape;
    var myTimer;

    function startAnimation () {

        squareShape=
                    document.myImage;
                    document.mySquare;
                    document.getElementById("myImage");
                    document.getElementById("mySquare");

         squareShape.currentTheta = 0;

         myTimer=
                    speed.value;
                    myTimer.interval (speed.value);
                    setTimer(animateImage, speed.value);
                    new timer(animateImage, speed.value);

            animateImage();
        }

        function animateImage() {

                    setInterval(animateImage, speed.value);
                    squareShape.setAttribute("rotate", "angle("
                    squareShape.setAttribute("transform", "angle("
                    squareShape.setAttribute("transform", "rotate("
                    squareShape.setAttribute("mySquare", "transform("

                + squareShape.currentTheta + ")");
            squareShape.currentTheta += 0.1;
        }
    </script>
```

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Section: (none)
Explanation

Explanation/Reference:
Note:
* What is SVG?

SVG stands for Scalable Vector Graphics
SVG is used to define vector-based graphics for the Web
SVG defines the graphics in XML format
SVG graphics do NOT lose any quality if they are zoomed or resized
Every element and every attribute in SVG files can be animated
SVG is a W3C recommendation

* Example:

```
<script>
  /* CONSTANTS */
  var initialTheta = 0; // The initial rotation angle, in degrees.
  var thetaDelta = 0.3; // The amount to rotate the square every "delay" milliseconds, in degrees.
  var delay = 10; // The delay between animation stills, in milliseconds. Affects animation smoothness.
  var angularLimit = 90; // The maximum number of degrees to rotate the square.

  /*
    Note that it will take the square (angularLimit/thetaDelta)*delay milliseconds to rotate an angularLimit
    number of degrees. For example, (90/0.3)*10 = 3000 ms (or 3 seconds) to rotate the square 90 degrees.
  */

  /* GLOBALS */
  var theSquare; // Will contain a reference to the square element, as well as other things.
  var timer; // Contains the setInterval() object, used to stop the animation.

  function init()
  /*
    Assumes that this function is called after the page loads.
  */
  {
    theSquare = document.getElementById("mySquare"); // Set this custom property after the page loads.
    theSquare.currentTheta = initialTheta; // The initial rotation angle to use when the animation starts, stored in
    timer = setInterval(doAnim, delay); // Call the doAnim() function every "delay" milliseconds until "timer" is cleared.
  }

  function doAnim()
  /*
```

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```
    This function is called by setInterval() every "delay" milliseconds.
   */
   {
    if (theSquare.currentTheta > angularLimit)
    {
     clearInterval(timer); // The square has rotated enough, instruct the browser to stop calling the doAnim() function.
     return; // No point in continuing; stop now.
    }

    theSquare.setAttribute("transform", "rotate(" + theSquare.currentTheta + ")"); // Rotate the square by a small amount.
    theSquare.currentTheta += thetaDelta;  // Increase the angle that the square will be rotated to, by a small amount.
   }
  </script>
</head>
```

QUESTION 116
You create a webpage that includes the following HTML markup: (Line numbers are included for reference only.)

```
01  <!DOCTYPE html>
02  <html>
03    <head>
04      <script src="jquery.js"></script>
05    </head>
06    <body>
07      <p>Type OK to validate form.</p>
08      <form action="javascript:alert('success!');">
09        <div>
10          <input type="text" />
11          <input type="submit" />
12        </div>
13      </form>
14      <script>
15
16      </script>
17    </body>
18  </html>
```

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You need to ensure that a form cannot be submitted unless the INPUT element contains the word OK.

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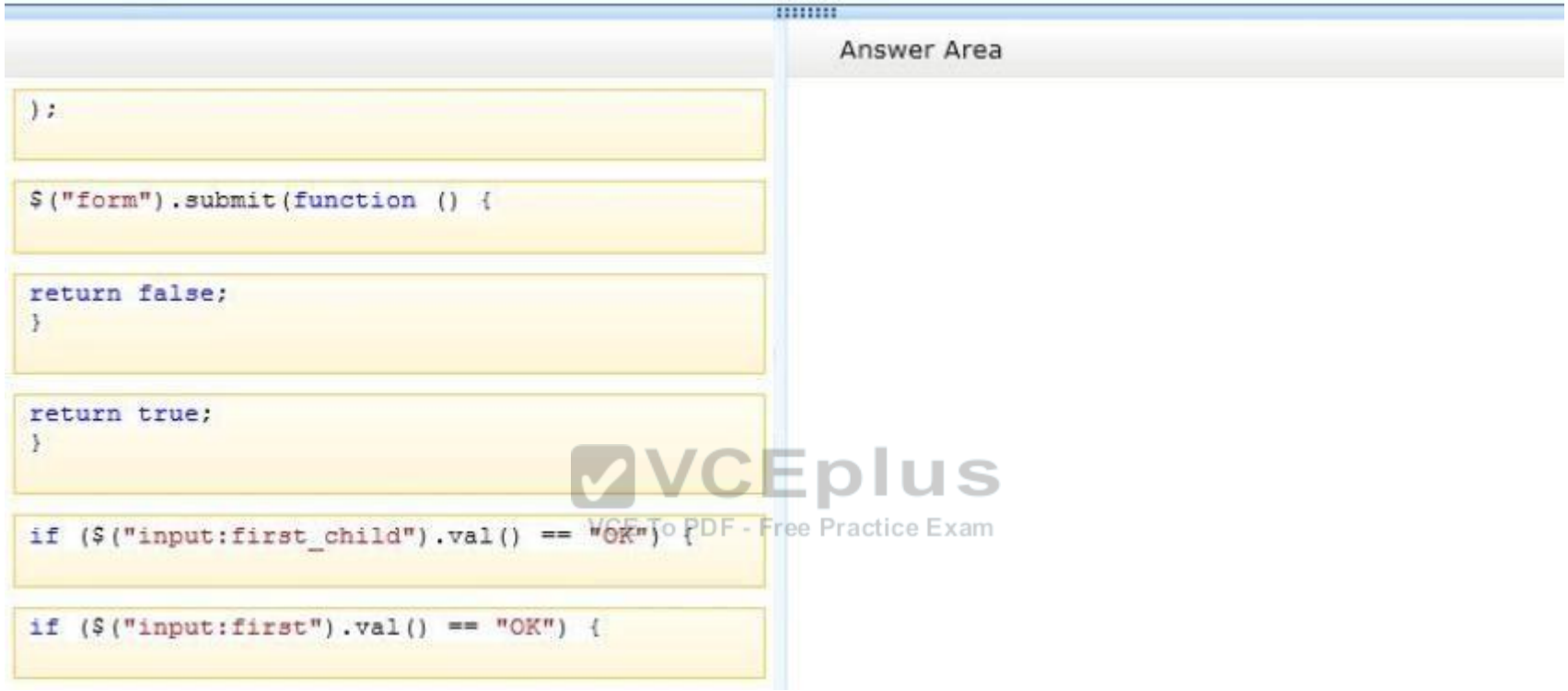
Which five actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:



Correct Answer:

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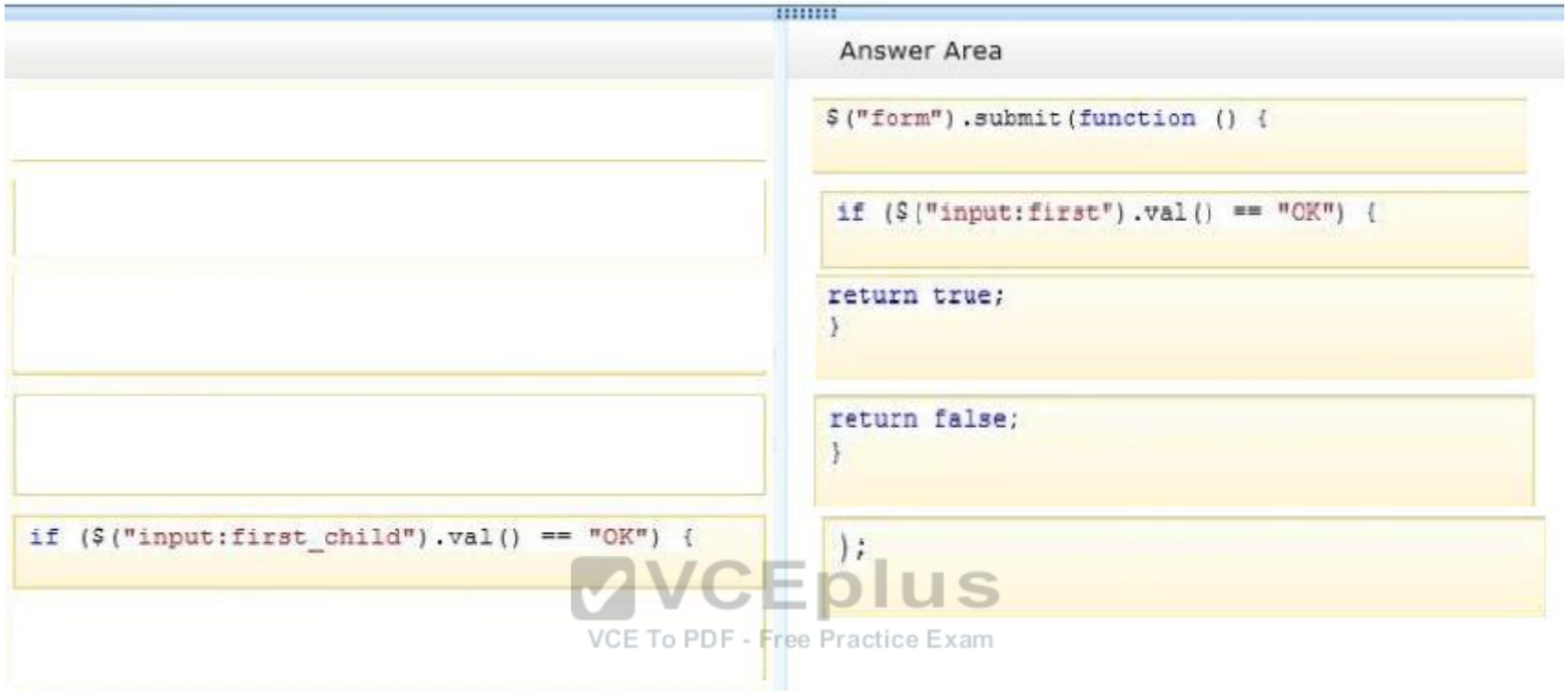

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 117
You are implementing a web worker by using JavaScript and HTML5. The web worker processes a long-running loop and returns the result to a webpage.

The web worker is defined on the webpage as follows:

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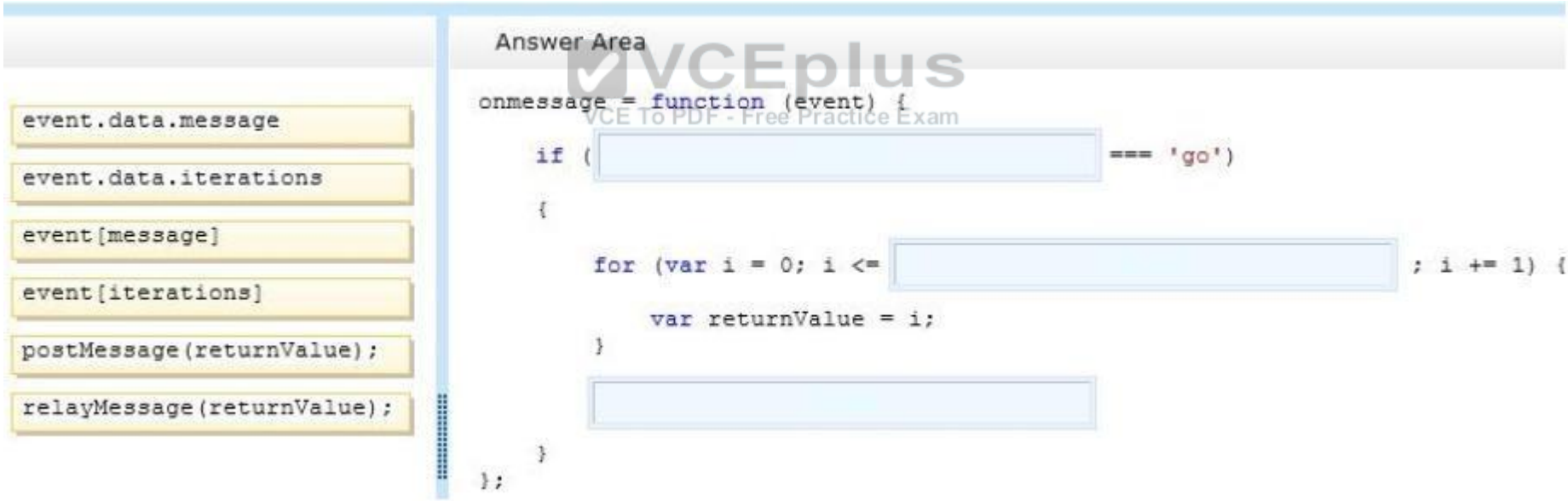
```
var myWorker = new Worker('task.js');
myWorker.postMessage({
  message: 'go',
  iterations: 1000000000
});
```

You have the following requirements:
Evaluate the message value in the web worker.
Process the loop based on the iterations value that is passed from the webpage.
Return a value back to the webpage from the web worker.

You need to implement the web worker.

How should you complete the relevant code? (To answer, drag the appropriate code segment to the correct location or locations in the answer area. Use only code segments that apply.)

Select and Place:



Correct Answer:

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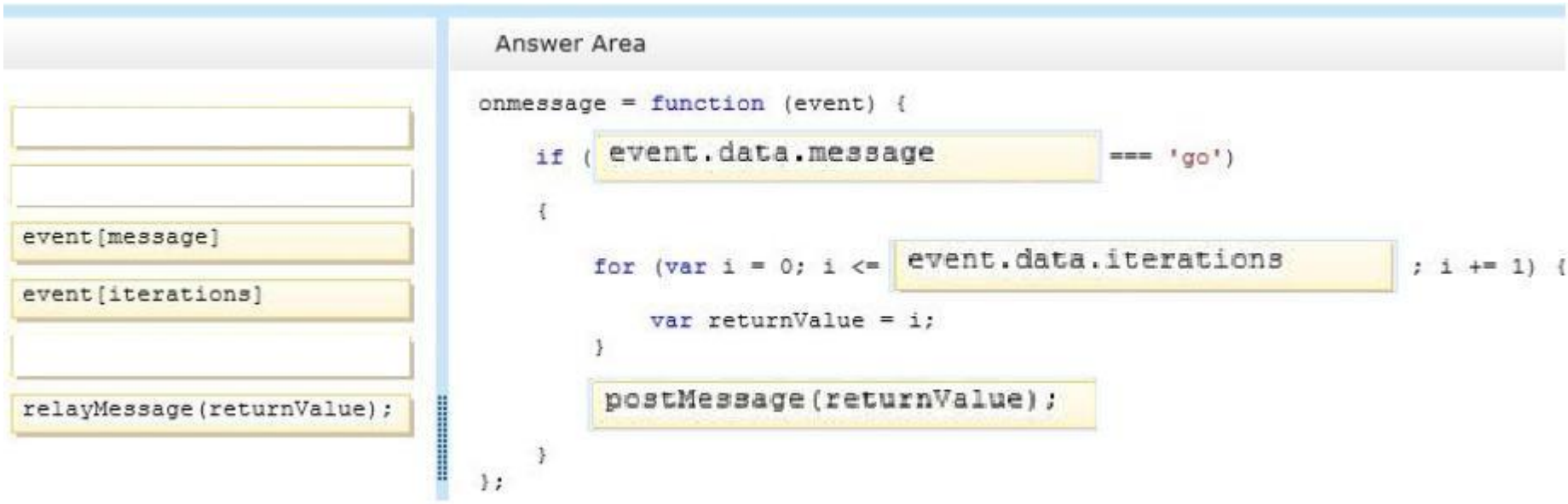

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Section: (none)
Explanation

Explanation/Reference:
Note:
* The event object for a message event supports the following additional properties:

the data property contains the message,
the origin property retrieves the scheme, hostname and port of the document that invoked the postMessage method,
the source property refers to the window object that contains the document that invoked the postMessage method,
the lastEventId property returns the identifier of the last message.

QUESTION 118

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```
<!DOCTYPE html>
<html>
  <head>
    <style type="text/css">
      .container {
        display: -ms-grid;
        -ms-grid-columns: 1fr 1fr 1fr;
        -ms-grid-rows: 1fr 1fr 1fr;
      }
      .blueBox {
        -ms-grid-row: 2;
        -ms-grid-column: 2;
        -ms-wrap-flow: auto;
        float:none;
        background-color: blue;
      }
      .text {
        -ms-grid-row: 1;
        -ms-grid-column: 1;
        -ms-grid-column-span: 3;
        -ms-grid-row-span: 3;
      }
    </style>
  </head>
  <body>
    <div class="body">
      <div name="container" class="container">
```

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How does the page render? For each statement in the table, select Yes if the behavior is described. Select No if it is not. Make only one selection in each column.

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Yes	No	
○	○	Content in the DIV element named **content** flows around all sides of the DIV element named **blueBox**.
○	○	The DIV element named **blueBox** will always be displayed at row 2, column 2 of the grid.
○	○	Content in the DIV element named **content** will fill all cells in the grid.

Correct Answer:

Yes	No	
○	●	Content in the DIV element named **content** flows around all sides of the DIV element named **blueBox**.
●	○	The DIV element named **blueBox** will always be displayed at row 2, column 2 of the grid.
●	○	Content in the DIV element named **content** will fill all cells in the grid.

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 119
You are creating a function by using JavaScript.

You have the following requirements:

The function must display loan amounts to the user within the following HTML element:

The loan amount of 2100 must display in the HTML element.
All declared variables and functions must be scoped to the myApp variable.

You need to implement the function.

How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations in the answer area.

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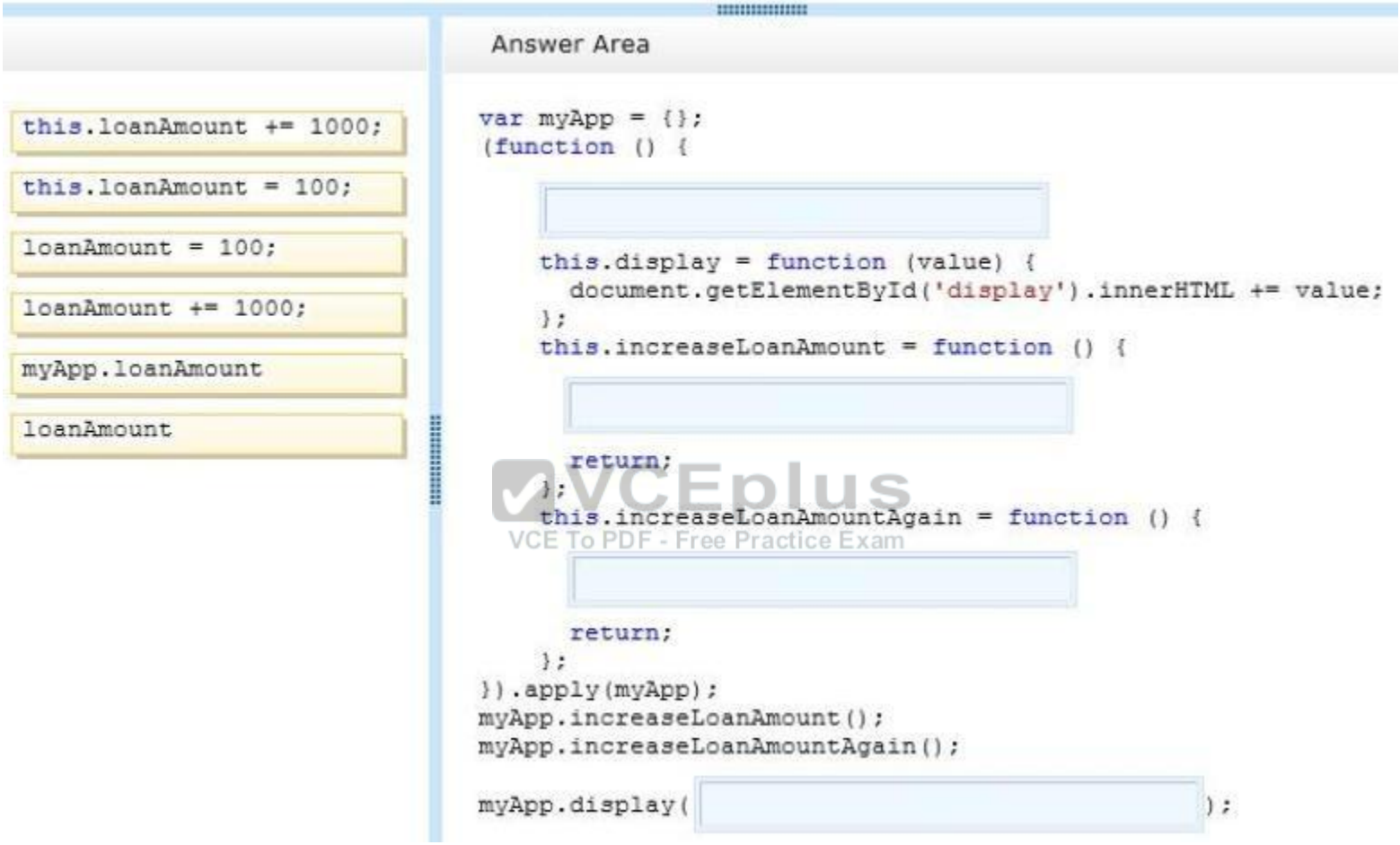
Use only code segments that apply.)

Select and Place:



Correct Answer:

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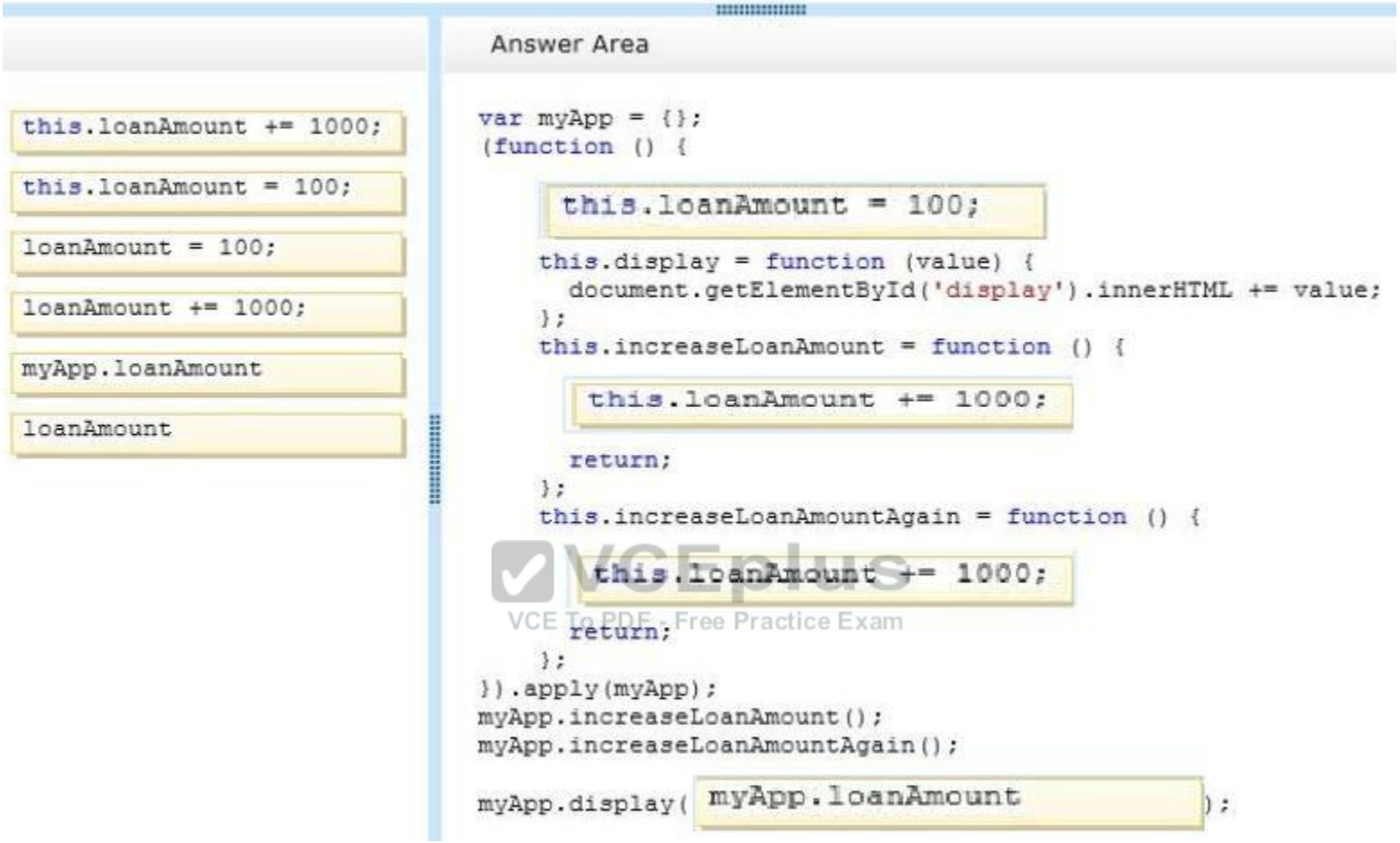

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 120
A box with rounded corners must appear around text. The box must match the following illustration:

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You need to add the CSS3 markup to your style.

How should you complete the relevant CSS styles? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<style>
    p {
        border: solid;
        [ ]
        [ ]
    }
</style>
```

Hot Area:

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```
<style>
    p {
        border: solid;

        display: inline;
        box-sizing: border-box;
        box-shadow: 10px 10px 10px #f00;
        box-shadow: 4px 4px 4px #f00;

        border-radius: 10px;
        border-spacing: 10px;
        border-bottom-style: outset;
        box-decoration-break: slice;

    }

  /style>
```

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Correct Answer:

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 121
You are creating a custom CSS3 style.

You have the following requirements to complete the style:
Box1 has a red outline.
Box1 contains box2, and box2 must remain inside box1
Box2 must have a green to black gradient.
Box2 must be surrounded by white space.

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The style resembles the following diagram:

You need to add the CSS3 code to the styles.

How should you complete the relevant code? (To answer, select the appropriate code segment in each drop-down list in the answer area.)

```
<style>
    #box1
    {

    }

    #box2
    {
      width: 6em;
      height: 4em;
      position: absolute;

    }
  </style>
```

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Hot Area:

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```
<style>
    #box1
    {
```

- margin: 5em; border: 1px solid #f00;
- margin: 5em; border-color: red;
- margin: 10px 10px 10px 10px; color: red;
- margin: 10px 10px 10px 10px; border-style: solid;

```
    }

    #box2
    {
      width: 6em;
      height: 4em;
      position: absolute;
```

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- background-image: linear-gradient(to bottom, green, black);
- background-image: linear-gradient(to top, green, black);
- background-image: radial-gradient(to bottom, green, black);
- background-image: radial-gradient(to top, green, black);

- margin: 0px 0px 0px 0px;
- margin: 10px 10px 10px 10px;
- padding: 0px 0px 0px 0px;
- padding: 10px 10px 10px 10px;

```
    }
</style>
```

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Correct Answer:

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```
<style>
    #box1
    {
```

margin: 5em; border: 1px solid #f00;
margin: 5em; border-color: red;
margin: 10px 10px 10px 10px; color: red;
margin: 10px 10px 10px 10px; border-style: solid;

```
    }

    #box2
    {
      width: 6em;
      height: 4em;
      position: absolute;
```

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background-image: linear-gradient(to bottom, green, black);
background-image: linear-gradient(to top, green, black);
background-image: radial-gradient(to bottom, green, black);
background-image: radial-gradient(to top, green, black);

margin: 0px 0px 0px 0px;
margin: 10px 10px 10px 10px;
padding: 0px 0px 0px 0px;
padding: 10px 10px 10px 10px;

```
      }
    </style>
```

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 122
You are validating user input by using built-in JavaScript functions.

The application must:
Store the value that is entered in a variable named inputValue
Use the built-in isNaN(tnputValue) function to evaluate the data type

You need to validate the return value of the isNaN(inputValue) function.
Which values will be returned? (To answer, configure the appropriate options in the dialog box in the answer area.)

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Correct Answer:

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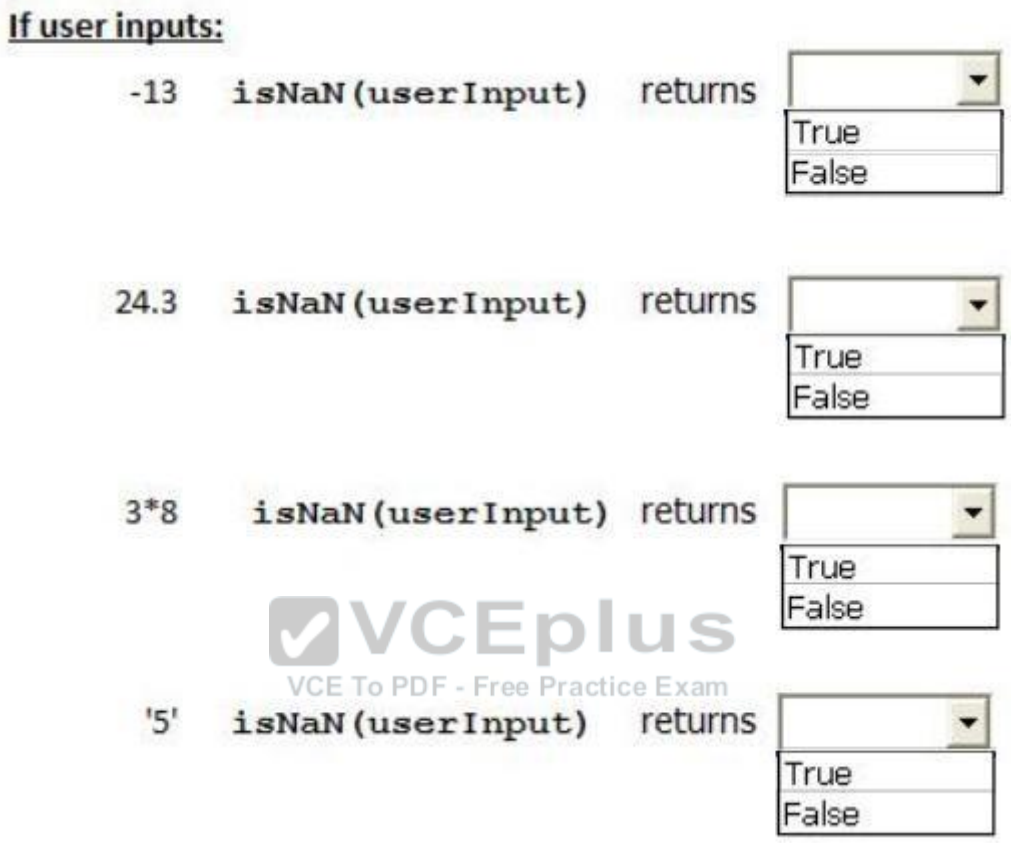

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 123
You are developing an HTML5 web application that will display encyclopedia entries.

Each encyclopedia entry has an associated image that is referred to in the entry.

You need to display the image by using the correct semantic markup.

What should you do? (To answer, drag the appropriate HTML tag to the correct element. Each tag may be used once, more than once, or not at all. You

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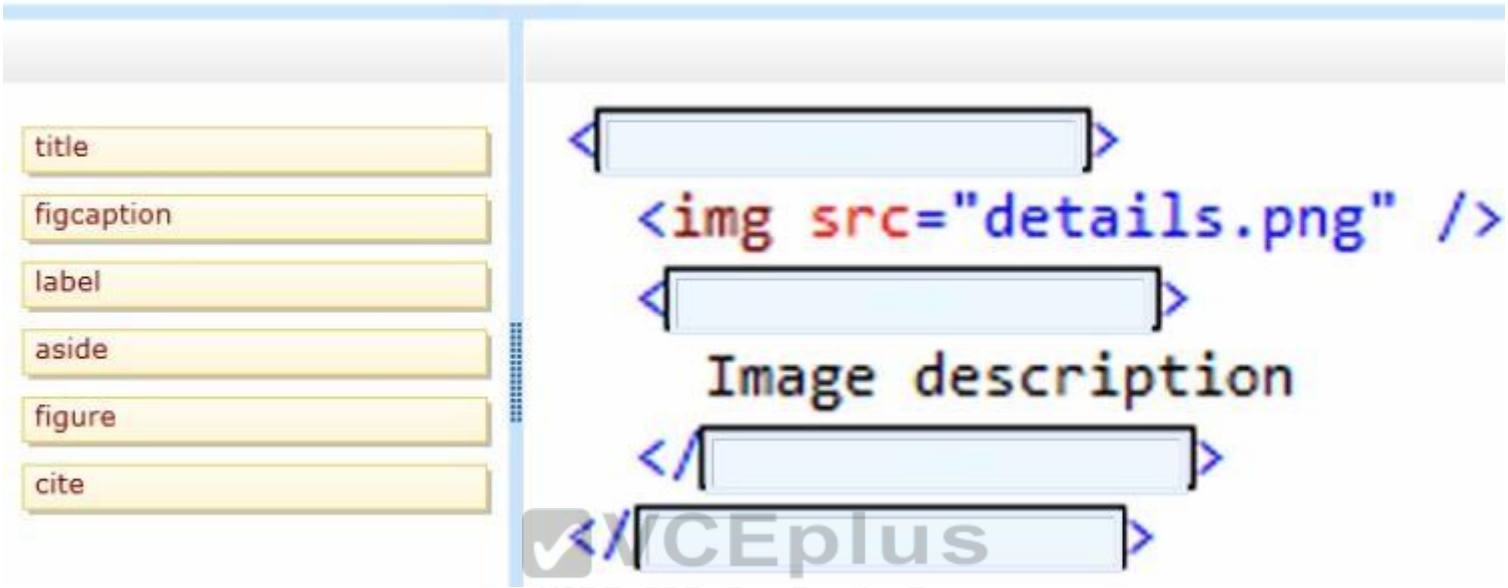
may need to drag the split bar between panes or scroll to view content.)

Select and Place:



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Correct Answer:

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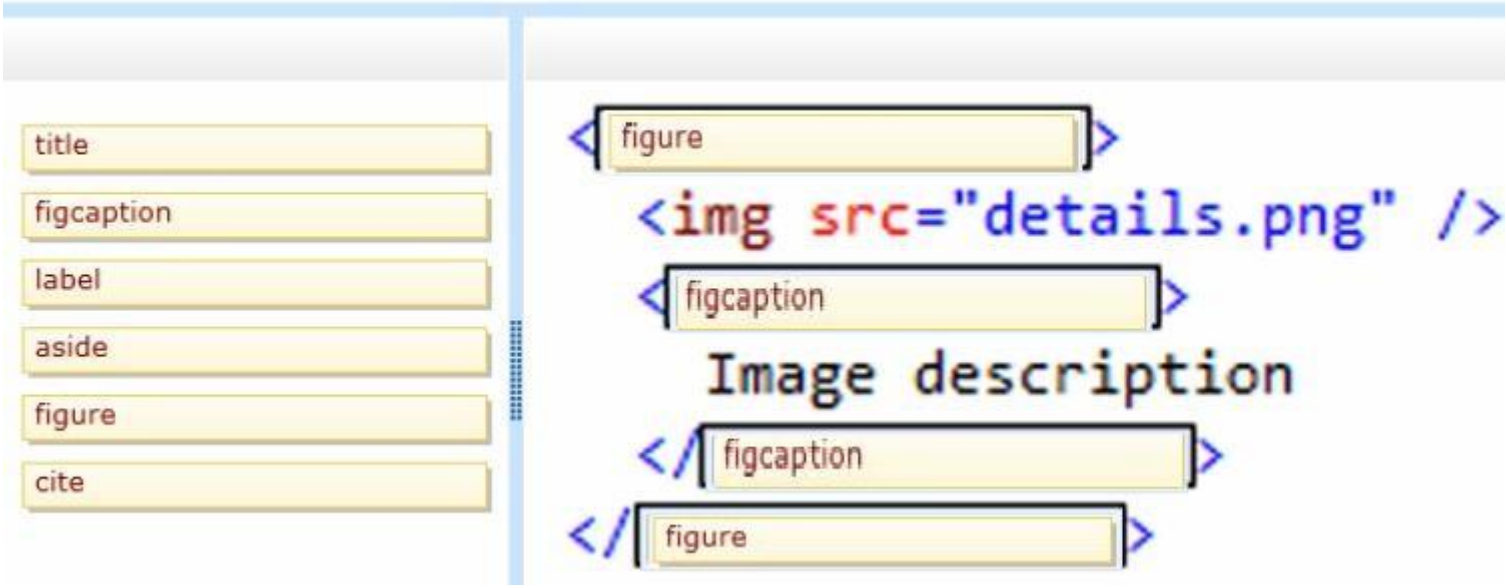

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 124
You develop a website for a company by using HTML5.

You have the following requirements:
Allow multiple news postings per page under the title "Welcome to the Semantic Web!".
Search engines must be able to index individual news postings.
News postings must be styled by using the following CSS markup:

.posting { line-height: 150%;)

You need to structure the markup for each individual news posting.

How should you complete the relevant markup? (To answer, drag the appropriate markup to the correct location or locations in the answer area. Use only markup that applies.)

Select and Place:

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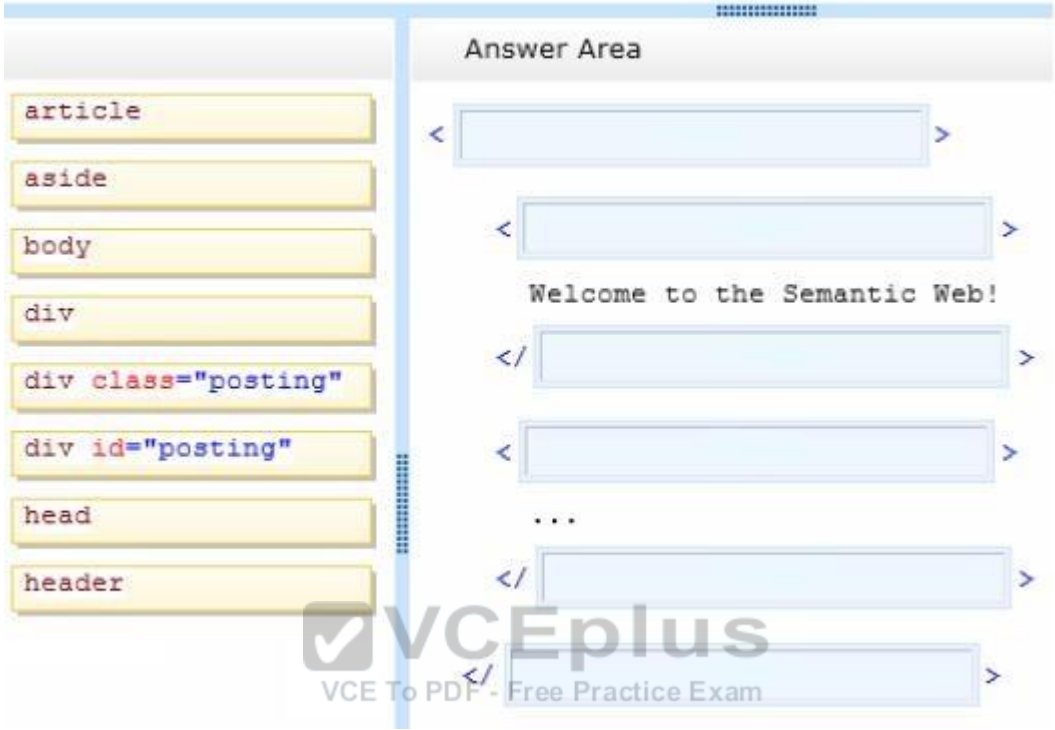

Correct Answer:

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 125
You are implementing an HTML page that uses a custom sans-serif font. The CSS statement for the page is as follows.

```
@font-face {
  font-family: 'special';
  src: url(/Special.eot) format('embedded-opentype');
}

body {
  font-family: 'special';
}
```

Some users report that text is displayed in the default font for the browser.

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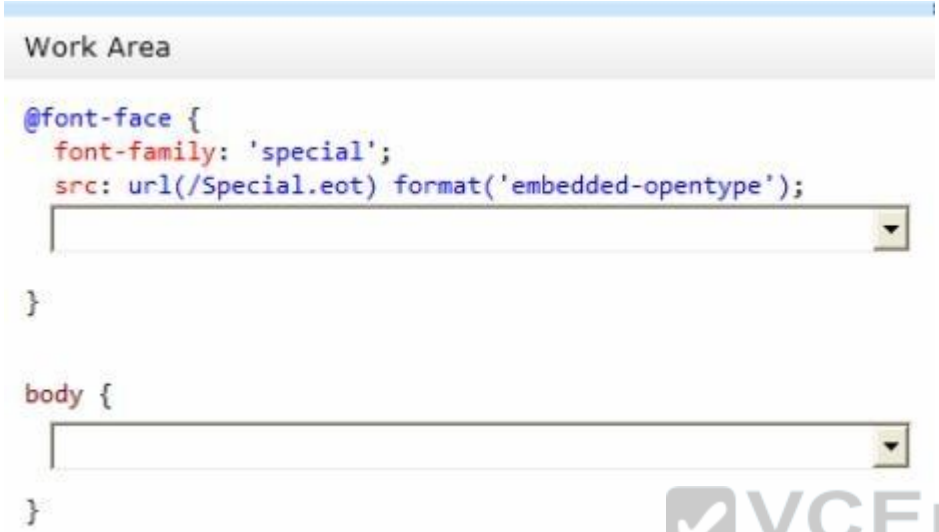
You need to modify the CSS statement to ensure that the content is displayed with the custom font.

What should you do? (To answer, select the appropriate options from the drop-down lists in the answer area.)



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Hot Area:

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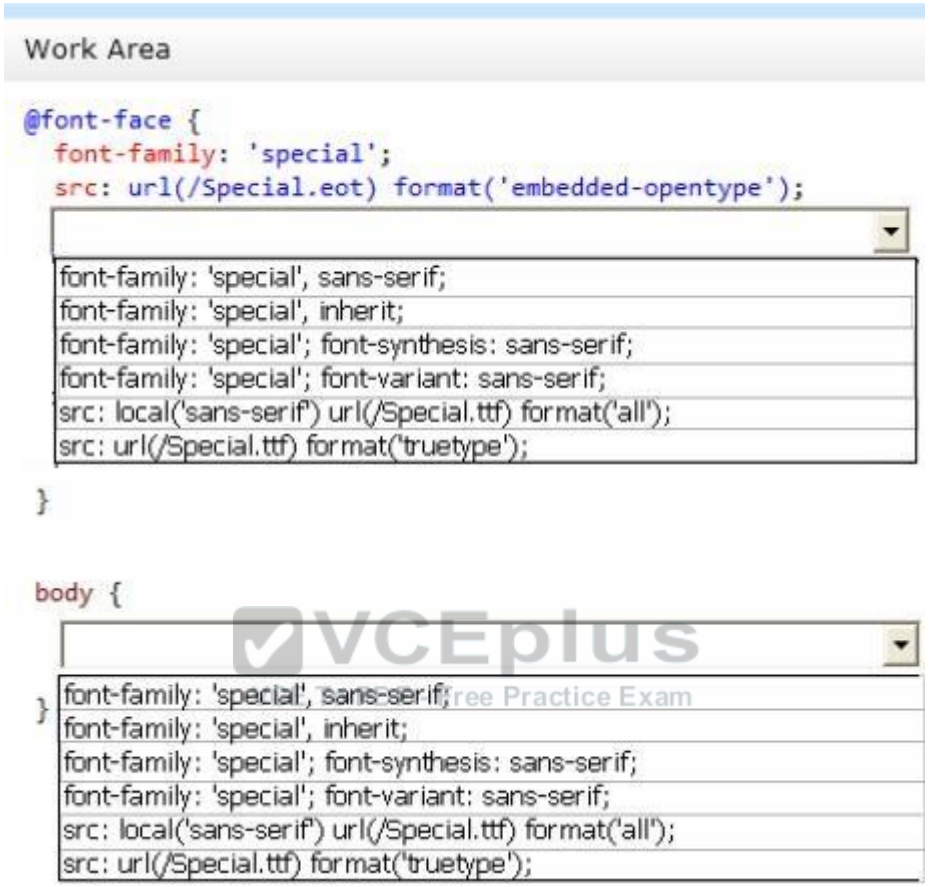

Correct Answer:

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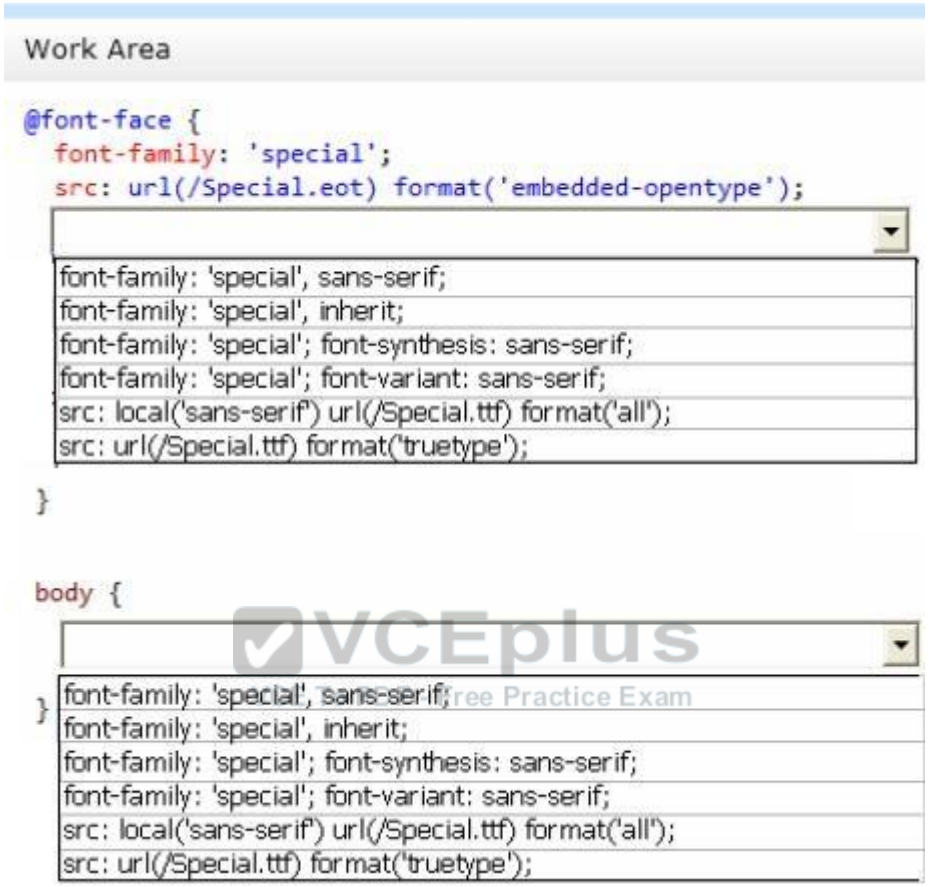


Section: (none)
Explanation

Explanation/Reference:

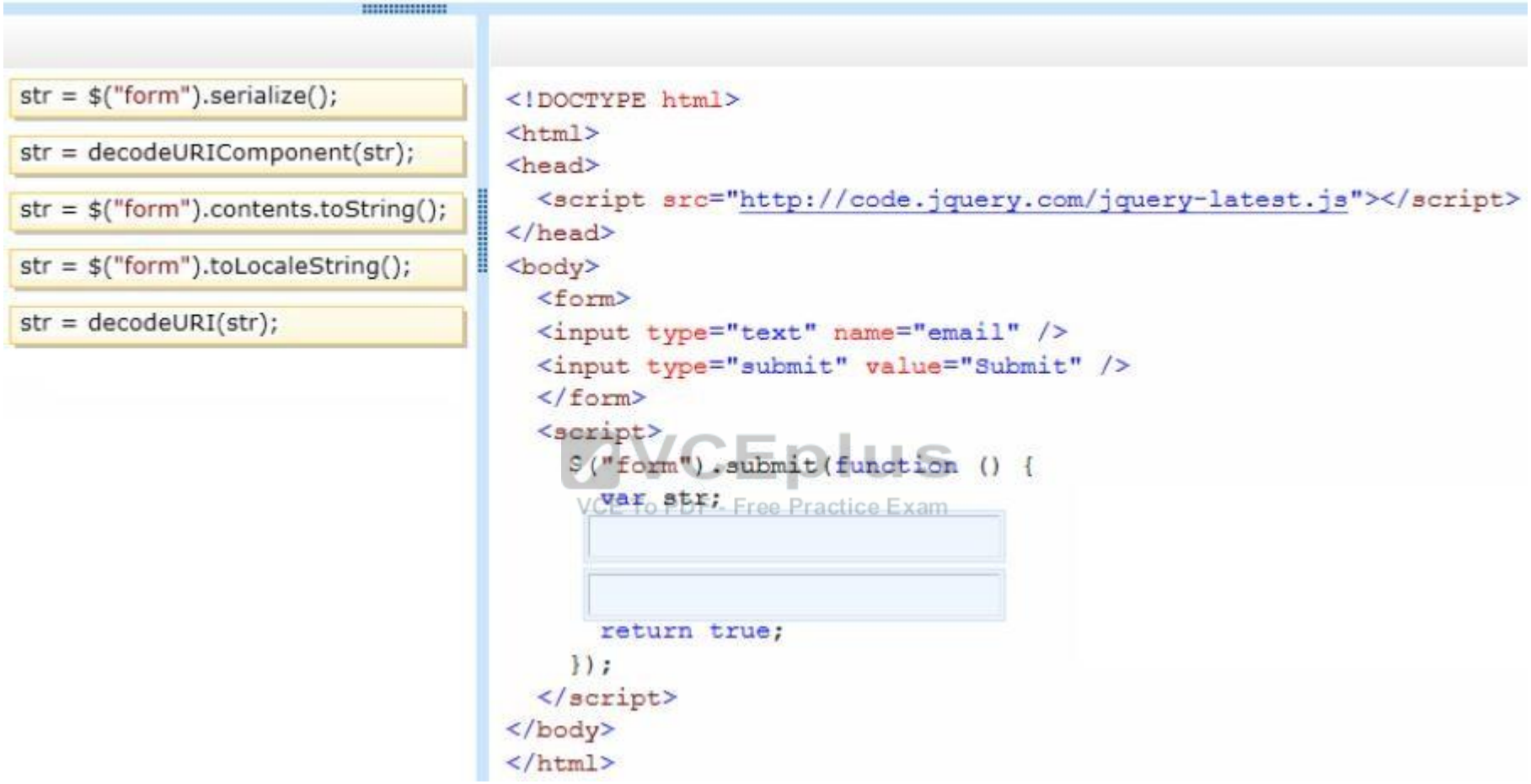
QUESTION 126
You are developing a form that captures a user's email address by using HTML5 and jQuery.

The form must capture the form elements as a string.
You need to implement this functionality.

How should you develop the form? (To answer, drag the appropriate code segment to the correct target or targets in the answer area. Each code

segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:



Correct Answer:

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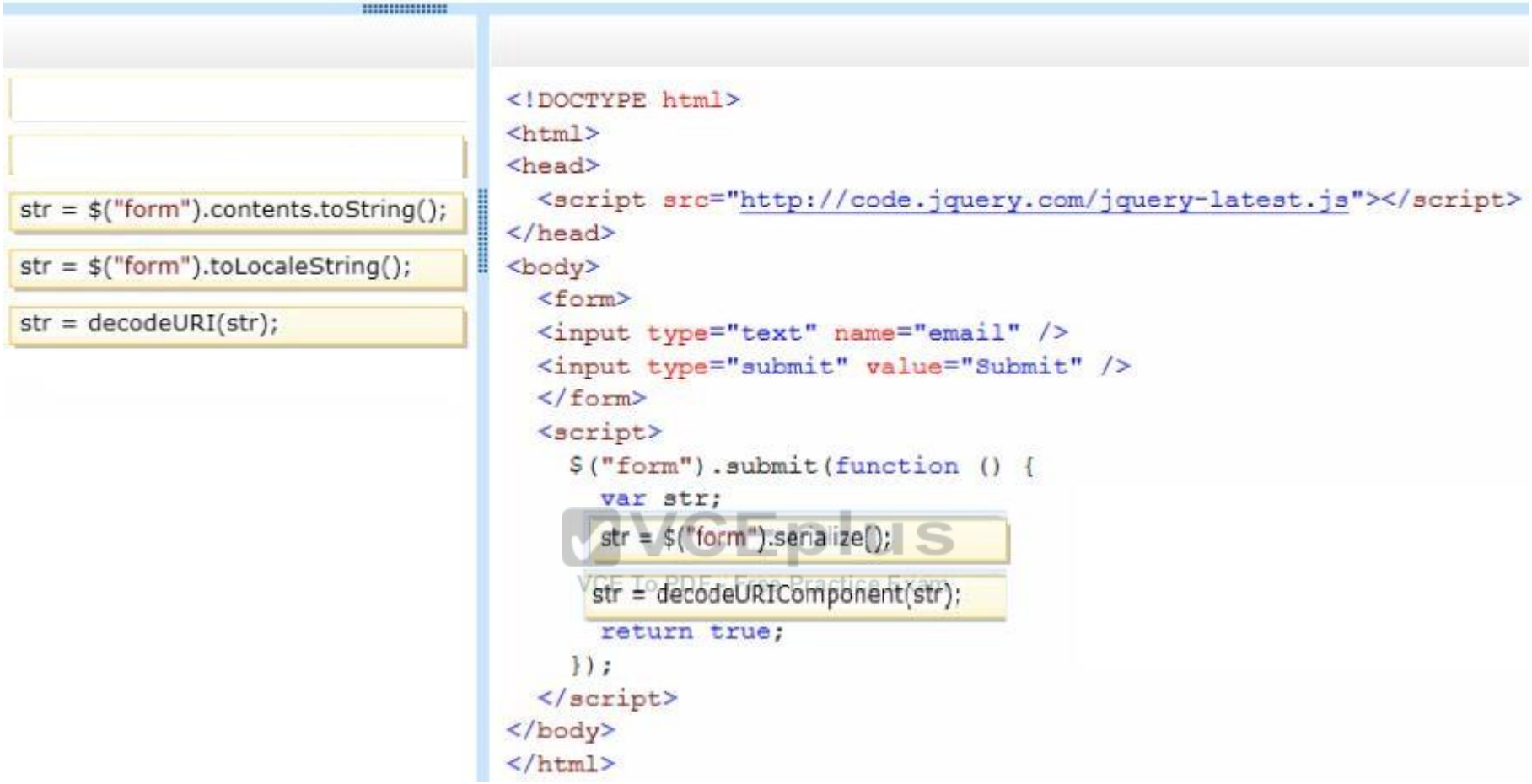

Section: (none)
Explanation

Explanation/Reference:

QUESTION 127
You are developing a customer contact form that will be displayed on a page of a company's website. The page collects information about the customer.

If a customer enters a value before submitting the form, it must be a valid email address.

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You need to ensure that the data validation requirement is met.

What should you use?

A. <input name="email" type="url"/>
B. <input name="email" type="text" required="required"/>
C. <input name="email" type="text"/>
D. <input name="email" type="email"/>

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/html/html5_form_input_types.asp

QUESTION 128
You are developing an application that consumes a Windows Communication Foundation (WCF) service.

The application interacts with the service by using the following code. (Line numbers are included for reference only.)

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```
01 <script>
02   function getCountry(country) {
03     $.ajax({
04     type: "POST",
05      contentType: "application/json; charset=utf-8",
06      url: "http://contoso.com/Service.svc/GetCountry",
07      data: '{"Country":' + country + '}',
08      dataType: "json",
09      success: OnSuccess,
10      error: OnError
11
12      });
13    }
14   function OnSuccess(data, status) {
15   ...
16   }
17   function OnError(request, status, error) {
18   ...
19   }
20 </script>
```

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You need to authenticate to the WCF service.

What should you do?

A. At line 11, add the following lines of code.
,username: yourusername
,password: yourpassword

B. At line 11, add the following line of code.
,credentials: prompt

C. At line 06, replace the code with the following line of code.
url: "http://contoso.com/Service.svc/GetCountry?
Username=username&password=psssword",

D. At line 11, add the following line of code. The username and password will be stored in an XML file.
,credentials: credentials.xml

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Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 129
You are developing a web page that enables customers to upload documents to a web server. The page includes an HTML5 PROGRESS element named progressBar that displays information about the status of the upload.

The page includes the following code. (Line numbers are included for reference only.)

```
01 var xhr = new XMLHttpRequest();
02 var progressBar = $("#progressBar");
03
04 function(e) {
05  if (e.lengthComputable) {
06    progressBar.value = (e.loaded / e.total) * 100;
07    progressBar.textContent = progressBar.value;
08  }};
```

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An event handler must be attached to the request object to update the PROGRESS element on the page.

You need to ensure that the status of the upload is displayed in the progress bar.

Which line of code should you insert at line 03?

A. xhr.upload.onloadeddata =
B. xhr.upload.onplaying =
C. xhr.upload.onseeking =
D. xhr.upload.onprogress =

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference:

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http://stackoverflow.com/questions/3352555/xhr-upload-progress-is-100-from-the-start

QUESTION 130
You are developing a customer web form that includes the following HTML.

<label id="txtValue"X/label>

Information from the web form is submitted to a web service. The web service returns the following JSON object.

{
"Confirmation": "1234",
"FirstName": "John"
}

You need to display the Confirmation number from the JSON response in the txtValue label field.

Which JavaScript code segment should you use?

A. $("#txtValue").val = (JSONObject.Confirmation);
B. $("#txtValue").val (JSONObject.Confirmation);
C. $("#txtValue").text = (JSONObject.Confirmation);
D. $("#txtValue").text (JSONObject.Confirmation);

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Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://api.jquery.com/text/

QUESTION 131
You are developing a customer web form that includes the following HTML.

<input id = "txtValue" />

A customer must enter a value in the text box prior to submitting the form.

You need to add validation to the text box control.
Which HTML should you use?

A. <input id="txtValue" type="text" required="required"/>

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B. <input id="txtValue" type="text" pattern="[A-Za-z]{3}" />
C. <input id="txtValue" type="required" />
D. <input id="txtValue" type="required" autocomplete="on" />

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/html5/att_input_required.asp

QUESTION 132
You are developing an HTML5 web application that displays the current temperature whenever a button is clicked. The following code provides this functionality.

```
function Loader() {
  this.status = "ready";
  this.temp = 50;
  this.updateStatus = function (newStatus) {
   status = newStatus;
  };
}

var loader = new Loader();

$(function () {
  $("#loadTemp").click(function (eventData) {
    loader.temp = loadTemp();
    loader.updateStatus("done");
  });
});
```

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When the temperature is loaded, the status property on the loader instance does not change. You need to ensure that the status property on the loader instance is updated when the temperature is loaded.

Which code segment should you use to replace the Loader function?

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A.
```
function Loader() {
  this.status = "ready";
  this.temp = 50;
  this.updateStatus = function (newStatus) {
    this.status = newStatus;
  };
}
```

B.
```
function Loader() {
  this.prototype.status = "ready";
  this.temp = 50;
  this.updateStatus = function (newStatus) {
    this.status = newStatus;
  };
}
```

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C.
```
function Loader() {
  status = "ready";
  this.temp = 50;
  this.updateStatus = function (newStatus) {
    status = newStatus;
  };
}
```

D.
```
function Loader() {
  window.status = "ready";
  this.temp = 50;
  this.updateStatus = function (newStatus) {
    status = newStatus;
  };
}
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 133
You implement a callback function by using JavaScript.

You need to process the returned XML data.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

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Hot Area:

```
<script>
    function getStatus(url, callback) {
        var httpRequest = new XMLHttpRequest();
        httpRequest.onreadystatechange = function () {
            if (httpRequest.readyState === 4
                && httpRequest.status === 200) {

                callback.call(httpRequest);
                httpRequest.setRequestHeader();
                callback.call(httpRequest.responseXML);
                callback = httpRequest.getResponseHeader();

            }
        };
        httpRequest.open('GET', url);
        httpRequest.send();
    }

    function start(url) {
        getStatus(url, function () {

            processResults(this);
            processResults(url.callback);
            processResults(this.XMLHttpRequest());
            processResults(url.callback.responseXML);

        });
    }
</script>
```

Correct Answer:

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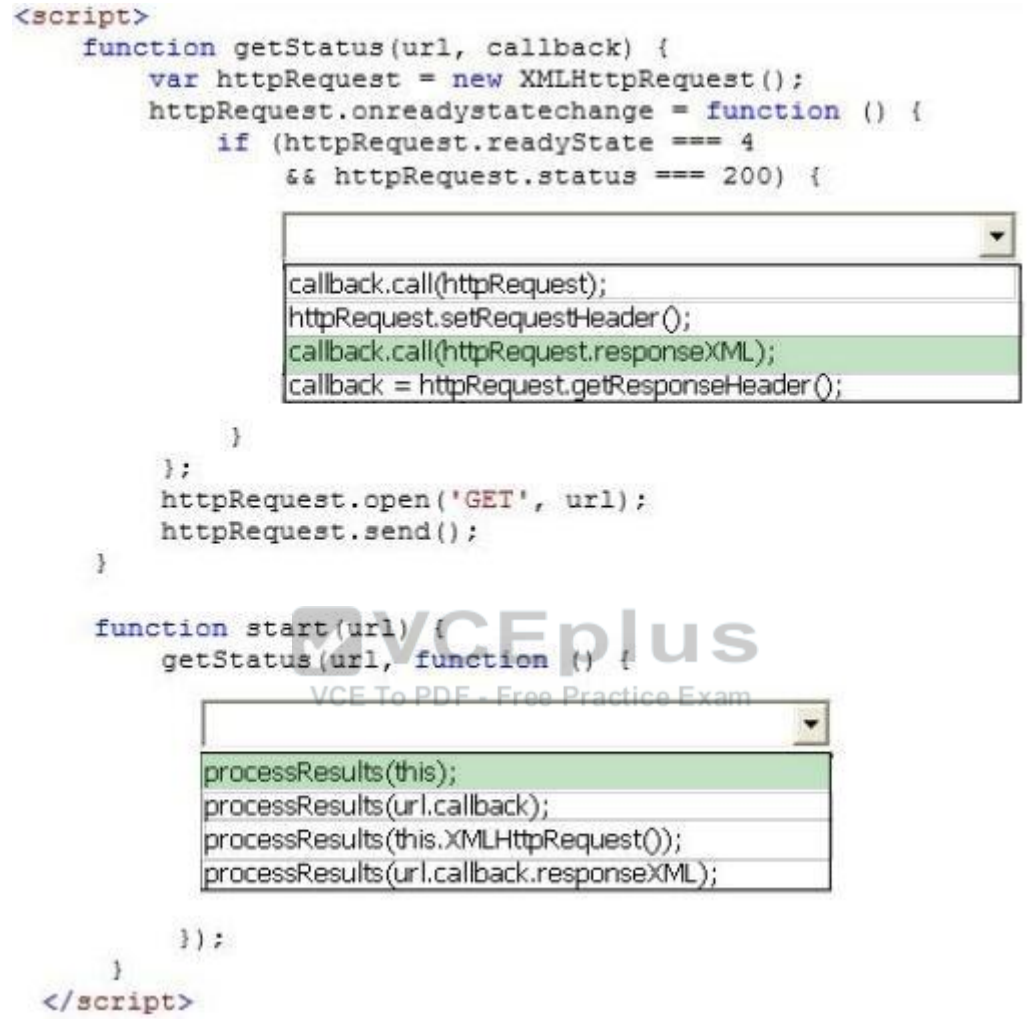

Section: (none)
Explanation

Explanation/Reference:

QUESTION 134
You review a webpage that contains the following markup:

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```
<!DOCTYPE html>
<html>
  <head>
    <style type="text/css">
      .container {
        display: -ms-grid;
        -ms-grid-columns: 1fr 1fr 1fr;
        -ms-grid-rows: 1fr 1fr 1fr;
      }
      .blueBox {
        -ms-grid-row: 2;
        -ms-grid-column: 2;
        -ms-wrap-flow: auto;
        float:none;
        background-color: blue;
      }
      .text {
        -ms-grid-row: 1;
        -ms-grid-column: 1;
        -ms-grid-column-span: 3;
        -ms-grid-row-span: 3;
      }
    </style>
  </head>
  <body>
    <div class="body">
      <div name="container" class="container">
        <div name="blueBox" class="blueBox"></div>
        <div name="content" class="text"></div>
      </div>
    </div>
  </body>
</html>
```

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How does the page render? For each statement in the table, select Yes if the behavior is described. Select No if it is not. Make only one selection in each column.

Hot Area:

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Yes	No	
○	○	Content in the DIV element named **content** flows around all sides of the DIV element named **blueBox**.
○	○	The DIV element named **blueBox** will always be displayed at row 2, column 2 of the grid.
○	○	Content in the DIV element named **content** will fill all cells in the grid.

Correct Answer:

Yes	No	
○	●	Content in the DIV element named **content** flows around all sides of the DIV element named **blueBox**.
●	○	The DIV element named **blueBox** will always be displayed at row 2, column 2 of the grid.
●	○	Content in the DIV element named **content** will fill all cells in the grid.

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 135
You create an HTML5 application that includes JavaScript. The application performs several AJAX requests. One AJAX request retrieves order information from a web service and then sends the information back to a webpage within the application.

You must create a custom event. You have the following requirements:
The webpage must contain an HTML element named ordersListing that will receive the custom event notification.
The event name must be ordersReceived.
The event must pass a custom value named orderCount.
The event must run a JavaScript method named showOrdersReceivedCount after the orders Listing HTML element receives the event.
Do not allow other DOM elements to receive the event.
Allow the event to be cancelled.
Send the event into the event system.

You need to implement the custom event to notify specific DOM elements of the AJAX response.

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Which three actions should you perform in sequence? (Develop the solution by selecting the required code segments and arranging them in the correct order.)

Select and Place:

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Answer Area

```
ordersListing.dispatchEvent(new CustomEvent
("ordersReceived", {
  detail: {
    orderCount: 5
  },
  bubbles: false,
  cancelable: true
}));
```

```
var ordersReceivedEvent = new CustomEvent
("ordersReceived", {
  bubbles: true,
  cancelable: true
});
```

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```
ordersListing.addEventListener
("orders", showOrders);
```

```
ordersReceived.dispatchEvent
(ordersReceivedEvent);
```

```
var ordersReceived = document.getElementById
("ordersReceived");
```

```
var ordersListing = document.getElementById
("ordersListing");
```

```
ordersListing.addEventListener
("ordersReceived", showOrdersReceivedCount);
```

```
ordersListing.dispatchEvent(new CustomEvent
("ordersReceived", {
  detail: {
    orderCount: 5
  },
```

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Correct Answer:

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Answer Area

```
var ordersReceivedEvent = new CustomEvent
("ordersReceived", {
  bubbles: true,
  cancelable: true
});
```

```
ordersListing.addEventListener
("orders", showOrders);
```

```
var ordersReceived = document.getElementById
("ordersReceived");
```

```
var ordersListing = document.getElementById
("ordersListing");
```

```
ordersListing.dispatchEvent(new CustomEvent
("ordersReceived", {
  detail: {
    orderCount: 5
  },
```

```
ordersListing.dispatchEvent(new CustomEvent
("ordersReceived", {
  detail: {
    orderCount: 5
  },
  bubbles: false,
  cancelable: true
}));
```

```
ordersListing.addEventListener
("ordersReceived", showOrdersReceivedCount);
```

```
ordersReceived.dispatchEvent
(ordersReceivedEvent);
```

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Section: (none)
Explanation

Explanation/Reference:
Note:
* From Scenario: Do not allow other DOM elements to receive the event.
So: bubbles: false

* From scenario: Allow the event to be cancelled.
So: cancellable: true

* From scenario:
The webpage must contain an HTML element named ordersListing that will receive the custom event notification.

* Events which are designated as bubbling will initially proceed with the same event flow as non-bubbling events. The event is dispatched to its target EventTarget and any event listeners found there are triggered. Bubbling events will then trigger any additional event listeners found by following the EventTarget's parent chain upward, checking for any event listeners registered on each successive EventTarget. This upward propagation will continue up to and including the Document. EventListeners registered as capturers will not be triggered during this phase. The chain of EventTargets from the event target to the top of the tree is determined before the initial dispatch of the event. If modifications occur to the tree during event processing, event flow will proceed based on the initial state of the tree.

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* Ajax (an acronym for Asynchronous JavaScript and XML) is a group of interrelated web development techniques used on the client-side to create asynchronous web applications. With Ajax, web applications can send data to, and retrieve data from, a server asynchronously (in the background) without interfering with the display and behavior of the existing page. Data can be retrieved using the XMLHttpRequest object. Despite the name, the use of XML is not required (JSON is often used instead), and the requests do not need to be asynchronous

QUESTION 136
You are developing an application by using JavaScript.

You must write a function that returns the sum of the variables named v1, v2, v3, v4.

You need to complete the sum function.

How should you complete the relevant code? (To answer, drag the appropriate code segment or segments to the correct location or locations in the answer area. Use only code segments that apply.)

Select and Place:

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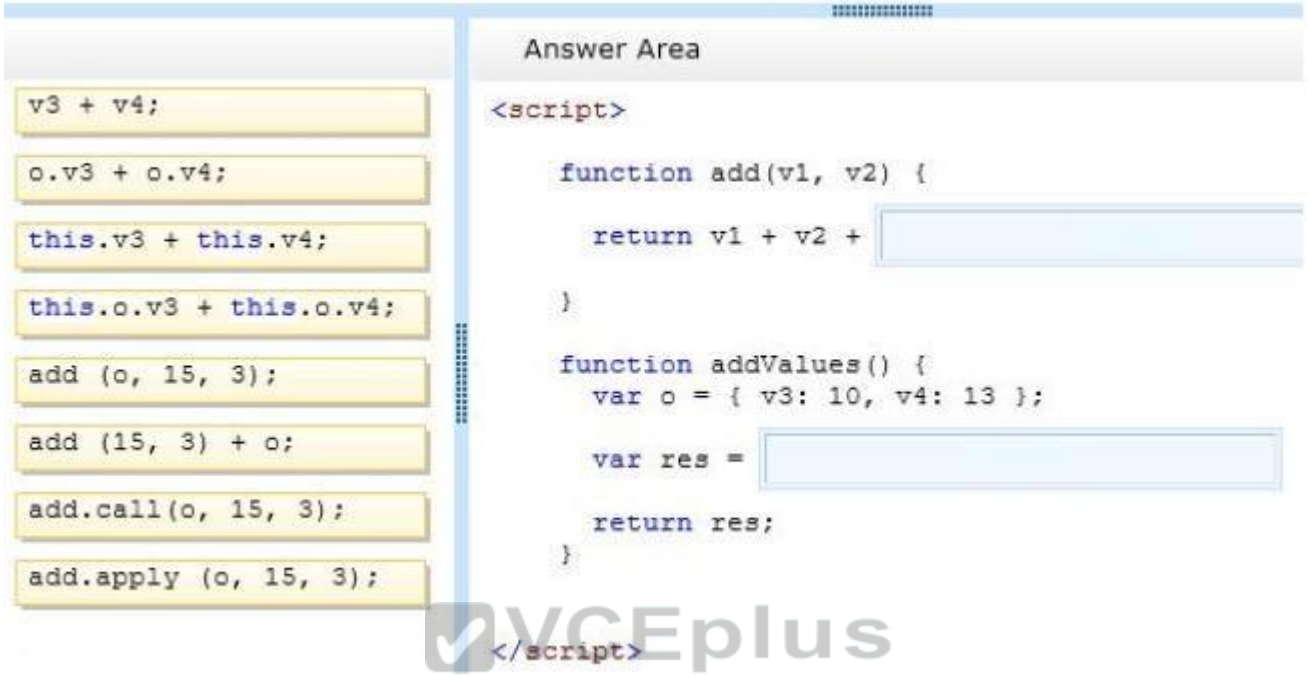

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Correct Answer:

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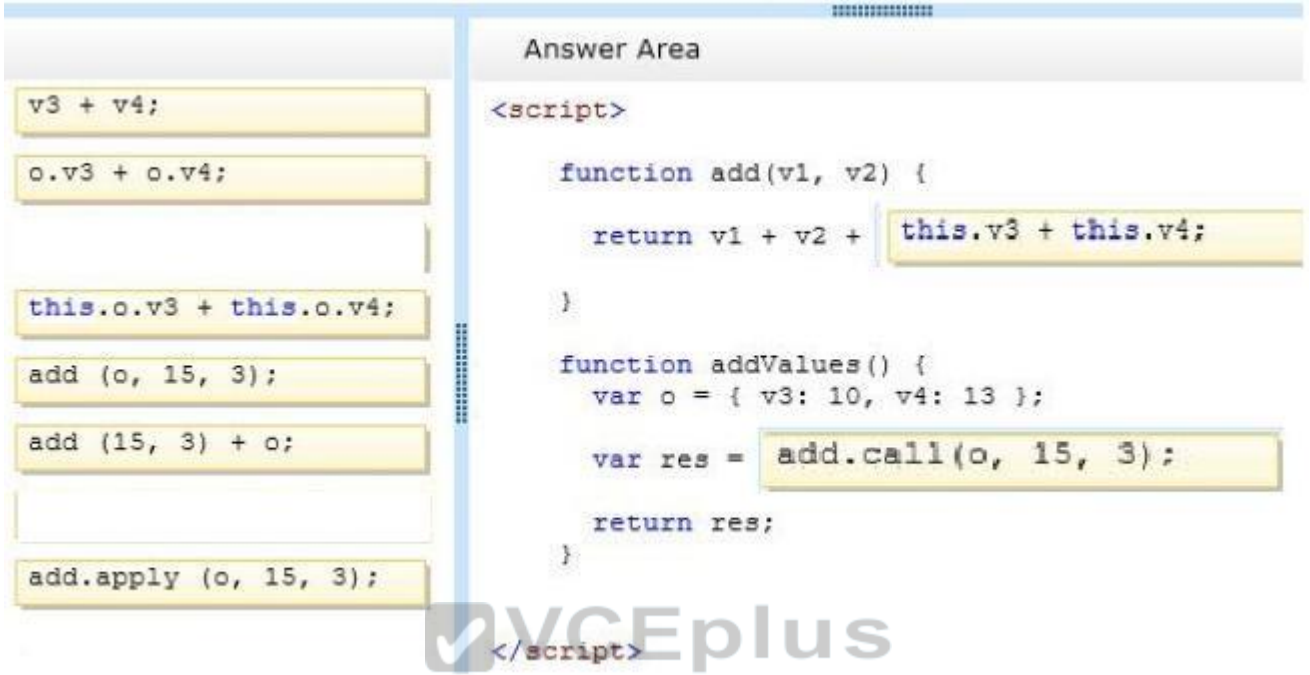

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 137
You are developing a web page that includes the following HTML.

```
<input name="ITSupport" type="checkbox" value="IT" id="choc"
 onclick="enable();" /><label for="IT">IT Support</label>
<input type="email" placeholder="IT@Contoso.com" id="eMail"
 name="eMail" disabled /><label for="eMail" >Your eMail </label>
```

You need to ensure that the email element is enabled only if the user selects the IT Support check box.

Which CSS selectors should you use? (To answer, drag the appropriate selector to the correct location. Each selector may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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Correct Answer:

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 138
You develop an HTML5 webpage. You have the following HTML markup:

```
<div id="MapContents"></div>
<img src="map.gif" alt="US Map" id="UsMap" />
```

You need to update the content of the DIV element when the mouse hovers over an image and when the mouse coordinates change.

How should you complete the relevant code? (To answer, drag the appropriate code segment to the correct location or locations in the answer area. Use only code segments that apply.)

Select and Place:

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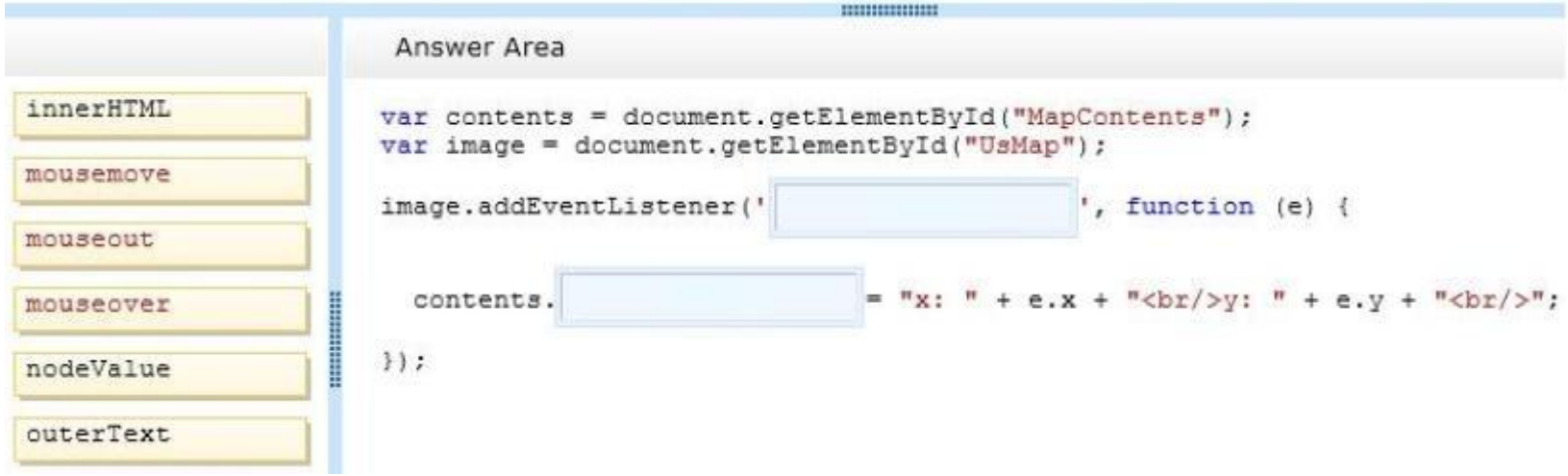

Correct Answer:

Section: (none)
Explanation

Explanation/Reference:

QUESTION 139

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You are developing a web page that consumes a Windows Communication Foundation (WCF) service. The page includes the following code segment.

var xhr = new XMLHttpRequest() ;

The page uses the xhrHandler() method to listen for changes to the request status of the WCF service calls. It uses the xmlToJavaScript() method to convert the response from the WCF service to a JavaScript object.

The xhrHandler() method must be called automatically each time the request status changes.

You need to add the event handler to the request object.

Which line of code should you use?

A. xhr.onCallback = xhrHandler;
B. xhr.onreadystatechange = xhrHandler;
C. xhr.readyState = xhrHandler;
D. xhr.status = xhrHandler;

Correct Answer: B
Section: (none)
Explanation

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Explanation/Reference:
Reference:
http://mrfwebdesign.blogspot.ca/2008/11/xmlhttprequest-xhr.html

QUESTION 140
You are developing a customer web form that includes following HTML.

<input id="txtValue"/>

You need to develop the form so that customers can enter only a valid country code consisting of three English alphabet characters.

Which code segment should you use?

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A.
```
function validate() {
  var name = $("#txtValue").text();
    if (name == null || name == "")
      alert("please enter valid value");
      return;
 }
```

B.
```
function validate() {
  var value = $("#txtValue").text();
  var regex = /^[\d\,\.]*$/;
  if (!regex.test(value) || name == "")
    alert("please enter valid value");
  return;
}
```

C.
```
function validate() {
  var value = $("#txtValue").val();
  var regex = /^[A-Za-z]{3}/;
  if (!regex.test(value) || value == "")
    alert("please enter valid value");
  return;
}
```

D.
```
function validate() {
  var name = $("#txtValue").val();
    if (name == null || name == "")
      alert("please enter valid value");
      return;
}
```

A. Option A

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B. Option B
C. Option C
D. Option D

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 141
You are developing an application that consumes an external web service that returns the latest stock rate.

The application has two methods:
The getResults() method makes an AJAX web service request The ShowRate() method displays the stock rate from the web service response

You need to ensure that the ShowRate() method always displays the latest stock rate.

Which code segment should you use?

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A.
```
function getResults(){
$.ajax({
  type: 'POST',
   cache:true,
  url: "StockRates.asmx/GetRate",
  data: { 'StockName': stockName }
  dataType: 'json',
  success: function (result) {
  stockRate = result;
  });
  ShowRate();
}

function ShowRate() {
  alert(stockRate);
}
```

B.
```
var stockRate;
function getResults(){
$.ajax({
  async: false,
  type: 'POST',
  url: "StockRates.asmx/GetRate",
  data: { 'StockName': stockName },
  dataType: 'json',
  success: function (result) {
  stockRate = result;
  });
 ShowRate();
}

function ShowRate() {
  alert(stockRate);
}
```

C.
```
var stockRate;
function getResults(){
$.ajax({
  async: true,
  type: 'POST',
  url: "StockRates.asmx/GetRate",
  data: { 'StockName': stockName },
  dataType: 'json',
  success: function (result) {
  stockRate = result;
  });
  ShowRate();
}

function ShowRate() {
  alert(stockRate);
}
```

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D.
```
var stockRate;
function getResults(){
$.ajax({
  async: false,
  cache:false,
  type: 'POST',
  url: "StockRates.asmx/GetRate",
  data: { 'StockName': stockName },
  dataType: 'json',
  success: function (result) {
  stockRate = result;
  });
  ShowRate();
}

function ShowRate() {
  alert(stockRate);
}
```

ations

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 142
You are creating a JavaScript function to display the current version of a web application You declare a button as follows.

<input type="button" id="About" value="About" />

You need to create an event handler for the button by using an anonymous function.

Which code segment should you use?

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A.
```
var button = document.getElementById("About");
button.addEventListener('click', function { alert("Version 2.1.0") } );
```

B.
```
var button = document.getElementById("About");
button.addEventListener('click', function (alert("Version 2.1.0") ) );
```

C.
```
var button = document.getElementById("About");
button.addEventListener('click', function () { alert("Version 2.1.0") } );
```

D.
```
var button = document.getElementById("About");
button.addEventListener('click', alert("Version 2.1.0") );
```

A. Option A

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B. Option B
C. Option C
D. Option D

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 143
You are testing the value of the following variable in JavaScript.

var height = "300";

A block of code must execute if the following conditions are true:
The height variable is set to 300
The height variable is of type string

You need to implement the code to run the test.

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Which line of code should you use?

A. if (height = = 300)
B. if (height = = "300")
C. if (height ! "300")
D. if (height ! = 300)

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Use = = to test for equality.
Use "300" to test for the string.

QUESTION 144
You are developing a web application that uses web workers to process images extracted from an HTML5 CANVAS object on a web page.

You need to pass messages between the web workers and the web page.

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Which three types of objects should you use? (Each correct answer presents a complete solution. Choose three.)

A. JSON
B. Window
C. Parent
D. String
E. JavaScript
F. DOM

Correct Answer: ADE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 145
You are developing an HTML5 web application and are styling text.

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You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

A. Lowercase
B. Blink
C. Line-through
D. 20px

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 146
You are creating a JavaScript object that represents an employee.

You need to extend the Employee object by adding the GetPayroll() method.

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You need to ensure that all future instances of the Employee object implement the GetPayroll() method.

Which code segment should you use?

A.
```
Employee.apply.GetPayroll() = function()
{
  alert("payroll");
}
```

B.
```
Employee.prototype.GetPayroll = function  Employee.GetPayroll()
{
  alert("payroll");
}
```

C.
```
Employee.GetPayroll() = function(){
  alert("payroll");
}
```

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D.
```
Employee.prototype.GetPayroll = function()
{
  alert("payroll");
}
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

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QUESTION 147
You are developing an HTML5 page that includes several paragraph elements.

You have the following requirements:
Add a drop shadow that is one inch below the text in the paragraph Set the radius of the drop shadow to five pixels

You need to style the paragraphs to meet the requirements.

Which CSS style should you use?

A. Text-shadow: 72pt 0pt 5pt
B. Text-shadow: 5px lin 0px;
C. Text-shadow: 72pt 0em 5px;
D. Text-shadow: 100px 0px 5px;

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
We set the second argument (vertical) to one inch (1in).

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Note
Syntax
text-shadow: h-shadow v-shadow blur color;

Note: The text-shadow property attaches one or more shadows to text. The property is a comma- separated list of shadows, each specified by 2 or 3 length values and an optional color. Omitted lengths are 0.

* h-shadow
Required. The position of the horizontal shadow. Negative values are allowed

* v-shadow
Required. The position of the vertical shadow. Negative values are allowed

* blur
Optional. The blur distance

* color
Optional. The color of the shadow.

QUESTION 148

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You are developing an HTML5 web application and are styling text.

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

A. Capitalize
B. Red
C. 20px
D. Italic

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/cssref/pr_text_text-transform.asp none,capitalize,uppercase,lowercase and inherit
Example
Transform text in different elements:
h1 {text-transform:uppercase;}
h2 {text-transform:capitalize;}
p {text-transform:lowercase;}

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QUESTION 149
You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability.

Which tag should you use?

A. <article>
B. <table>
C.
D.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

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The <article> tag specifies independent, self-contained content.

An article should make sense on its own and it should be possible to distribute it independently from the rest of the site.

Potential sources for the <article> element:

Forum post
Blog post
News story
Comment

QUESTION 150
You are developing an HTML5 page that has an element with an ID of picture. The page includes the following HTML.

```
<div>
   Picture:<br />
   <div id = "picture">
   </div>
</div>
```

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You need to move the picture element lower on the page by five pixels.

Which two lines of code should you use? (Each correct answer presents part of the solution.
Choose two.)

A. document.getElementById("picture").style.position = "relative";
B. document.getElementById("picture").style.top = "5px";
C. document.getEiementById("picture").style.top = "-5px";
D. document.getElementById("picture").style.position = "absolute";

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
We use relative position to move the position 5 pixels lower on page.

Using a negative value would move the picture higher on the page.

Note:
* The top property sets or returns the top position of a positioned element.

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This property specifies the top position of the element including padding, scrollbar, border and margin.

Syntax
Set the top property:

Object.style.top="auto|length|%|inherit"

Where:
Length defines the top position in length units. Negative values are allowed

QUESTION 151
You are developing a newsreader app that provides users with daily aggregated articles from popular news sites.

You must allow users to share the URI of the articles.

The app must allow at least one of the following ways to share the URI:
With another Windows Store app
With the user's default web browser

You need to implement the sharing functionality.

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Which property of the StandardDataFormats class should you use?

A. ContentSourceApplicationLink
B. Rtf
C. WebLink
D. ContentSourceWebLink

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

C
WebLink is a property of the StandardDataFormats class.
StandardDataFormats class (Windows)

QUESTION 152
You develop a Windows Store app that plays music files stored locally on your computer. The app contains the following HTML markup. Line numbers are included for reference only.

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```
01  <audio controls="controls">
02    <source src="myMusic.mp3" />
03  </audio>
```

You need to ensure that users can play music when the app is NOT displayed on the screen.

What should you do?

A. Replace line 02 with the following markup segment:
```
<source src="myMusic.mp3" autoplay="true"/>
```

B. Replace line 02 with the following markup segment:
```
<source src="myMusic.mp3" msaudiocategory="BackgroundCapableMedia"/>
```

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C. Replace line 01 with the following markup segment:
```
<audio controls="controls" msaudiocategory="BackgroundCapableMedia">
```

D. Replace line 01 with the following markup segment:
```
<audio controls="controls" autoplay="true">
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

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Explanation/Reference:
autoplay attribute | autoplay property (Windows)

QUESTION 153
You develop a Windows Store app that uses a peer-to-peer scenario. You submit the app to the Windows Store.

The app fails Windows Store certification.

You need to ensure that the app meets Windows Store certification guidelines.
What should you do?

A. Enable the Enterprise Authentication capability in the app manifest.
B. Enable the Internet (Client & Server) capability in the app manifest.
C. Enable the Shared User Certificates capability in the app manifest.
D. Enable the Location capability in the app manifest.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
App certification requirements for the Windows Store (Windows)

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QUESTION 154
You are developing a Windows Store app.

The app must provide single sign-on (SSO) to a Microsoft account and to social networks. The SSO feature must be accessible from any device.

You need to implement SSO.

Which authentication strategy should you use?

A. Account settings
B. Smart card authentication
C. Fingerprint authentication
D. Web authentication broker

Correct Answer: D
Section: (none)
Explanation

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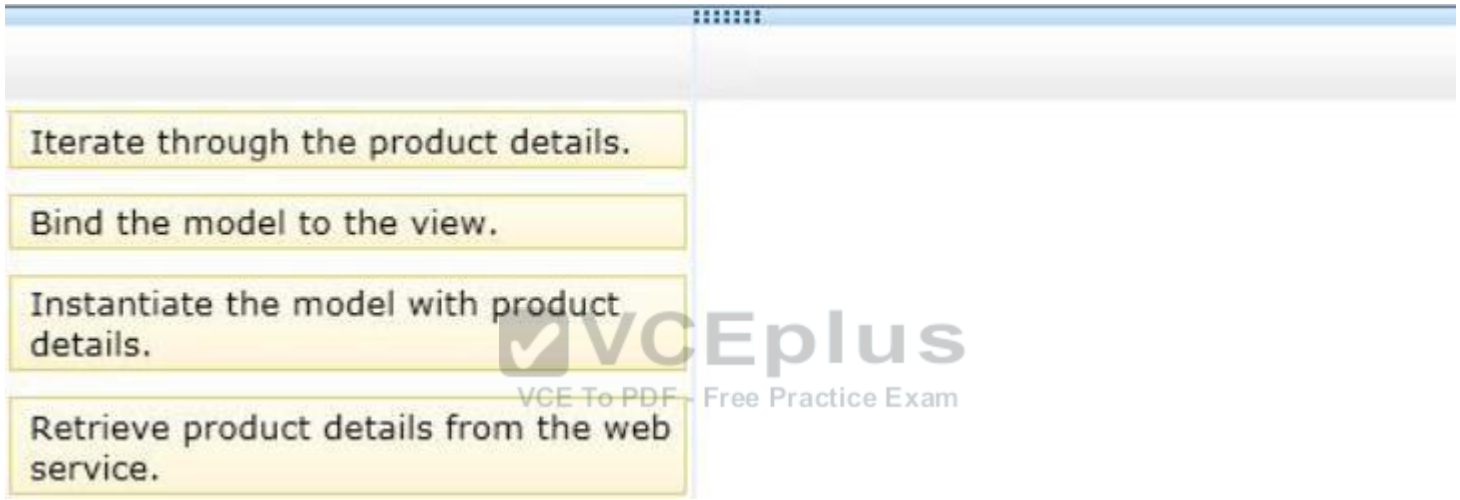
Explanation/Reference:
Understanding and debugging the web authentication broker workflow (XAML) (Windows)

QUESTION 155
You need to ensure that the product details are displayed.

Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:



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Correct Answer:

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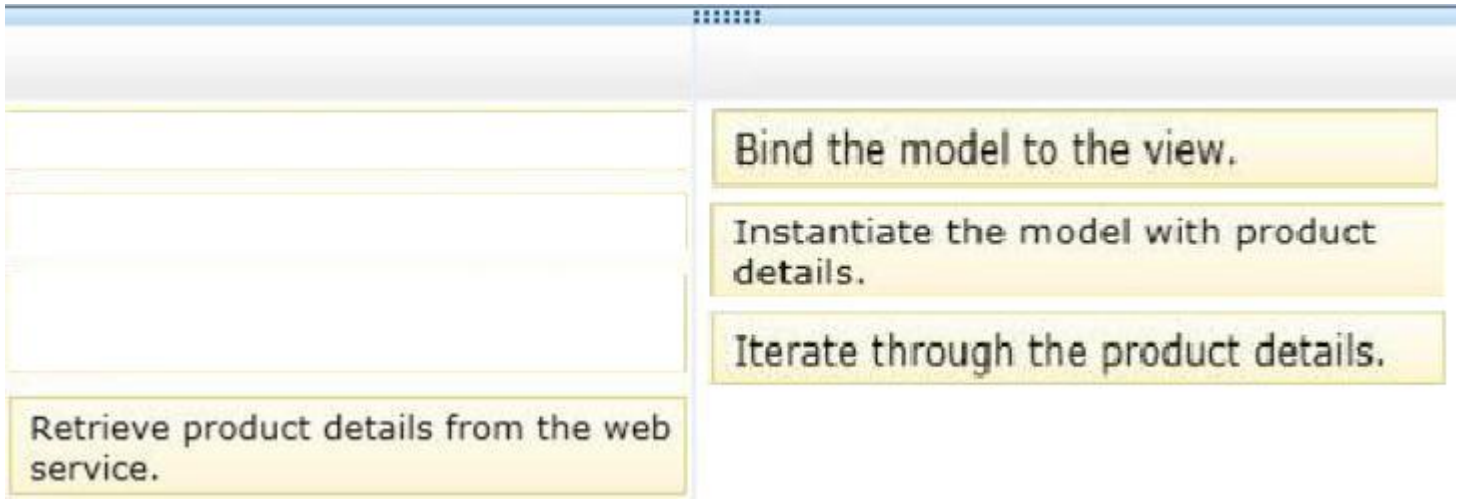

Section: (none)
Explanation

Explanation/Reference:
Note:
* Here are the relationships between a view, a view model and a model.

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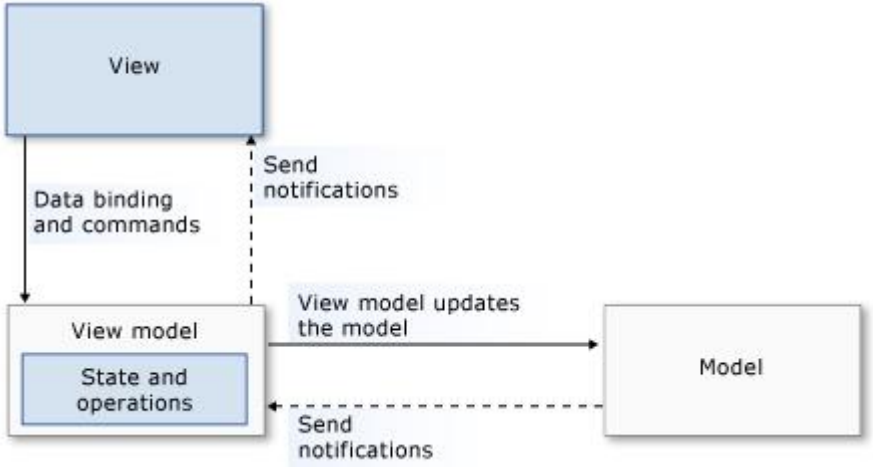

* MVVM is an architectural pattern. It is a specialization of the presentation model pattern that was introduced by Martin Fowler. It is also related to the model-view-controller pattern (MVC) and the model view presenter (MVP) pattern that you may already know.
An app that uses MVVM separates business logic, UI, and presentation behavior.

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/ Models represent the state and operations of business objects that your app manipulates. For example, Hilo reads and modifies image files, so it makes sense that data types for image files and operations on image files are part of Hilo's model.
/ Views contain UI elements, and they include any code that implements the app's user experience. A view defines the structure, layout, and appearance of what the user sees on the screen. Grids, pages, buttons, and text boxes are examples of the elements that view objects manage.

View models encapsulate the app's state, actions, and operations. A view model serves as the decoupling layer between the model and the view. It provides the data in a format that the view can consume and updates the model so that the view does not need to interact with the model. View models respond to commands and trigger events. They also act as data sources for any data that views display. View models are built specifically to support a view. You can think of a view model as the app, minus the UI. In Windows Store apps, you can declaratively bind views to their corresponding view models.

Reference:

Using the Model-View-ViewModel (MVVM) pattern in Hilo (Windows Store apps using C++ and XAML) (Windows)

QUESTION 156

You need to prepare the app according to the technical specifications.

Which tab in Visual Studio should you use? (To answer, select the correct tab in the answer area.)

Hot Area:

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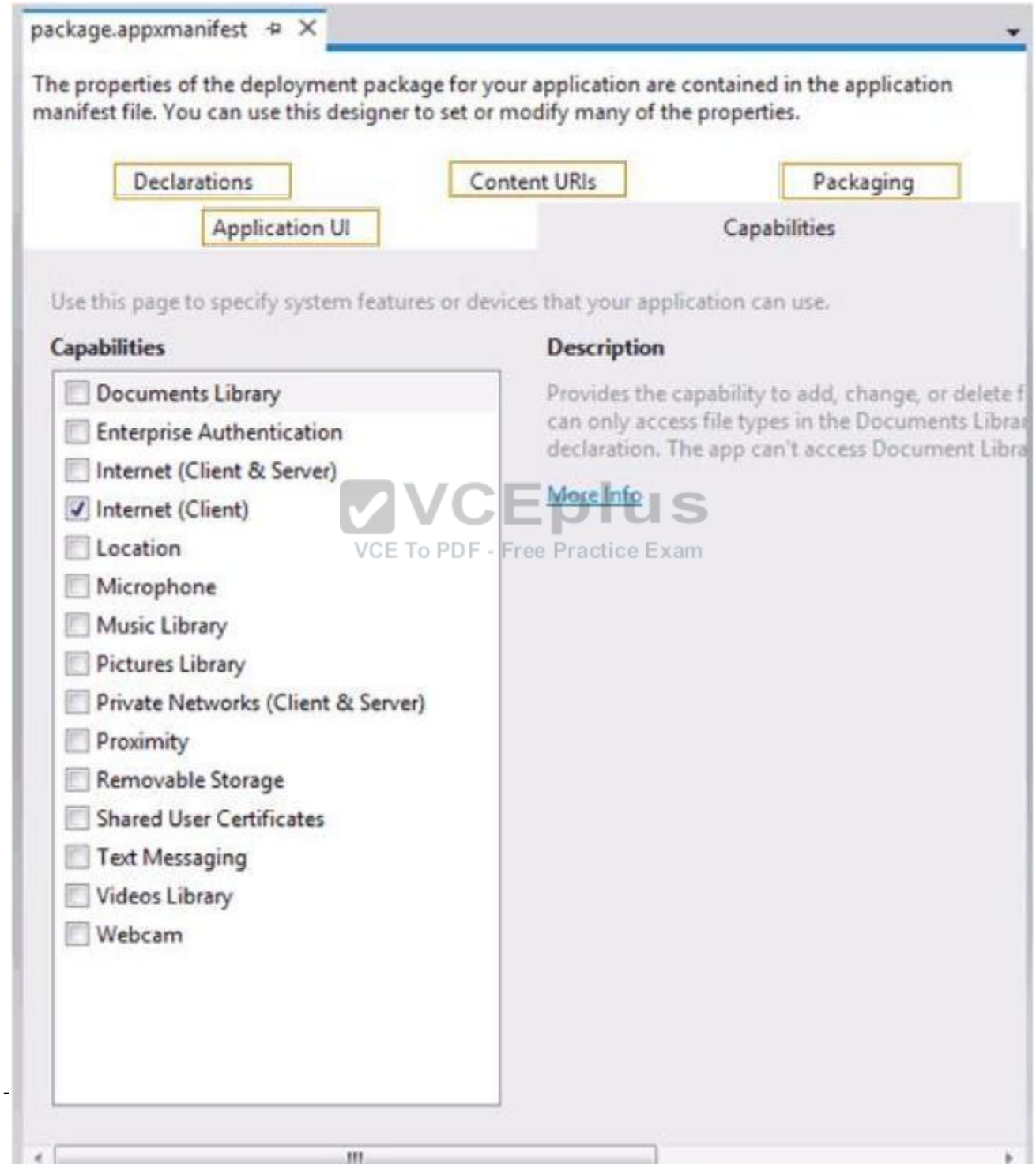

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Correct Answer:

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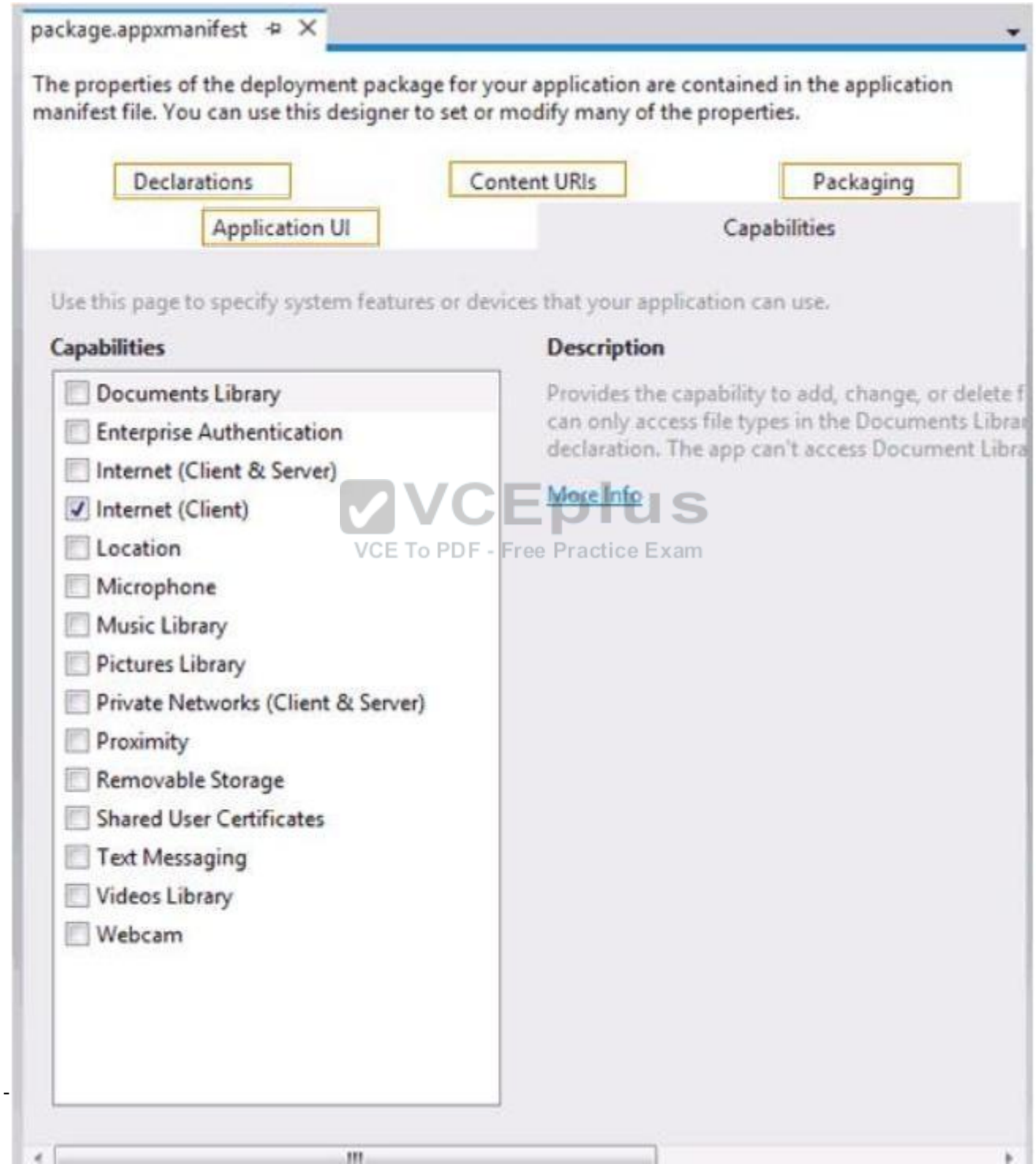

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 157
You need to ensure that product images are displayed according to the requirements.

Which attributes should you use? (To answer, drag the appropriate attributes to the correct locations in the answer area. Each attribute may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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```
data-win-control="WinJS.UI.Flyout"
data-win-control="WinJS.UI.FlipView"
data-win-control="WinJS.UI.ScrollView"
```

```
data-win-options="{ scroll: 'vertical'}">
data-win-options="{ orientation: 'vertical'}">
data-win-options="{ scroll: 'horizontal'}">
data-win-options="{ orientation: 'horizontal'}">
```

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```
<div id="photoContainer"
</div>
```

Correct Answer:

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Section: (none)
Explanation

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Explanation/Reference:

QUESTION 158
You need to handle the state of the app upon reactivation to meet the requirements.

Which four actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:

Correct Answer:

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 159
You need to configure the app to receive push notifications.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

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Correct Answer:

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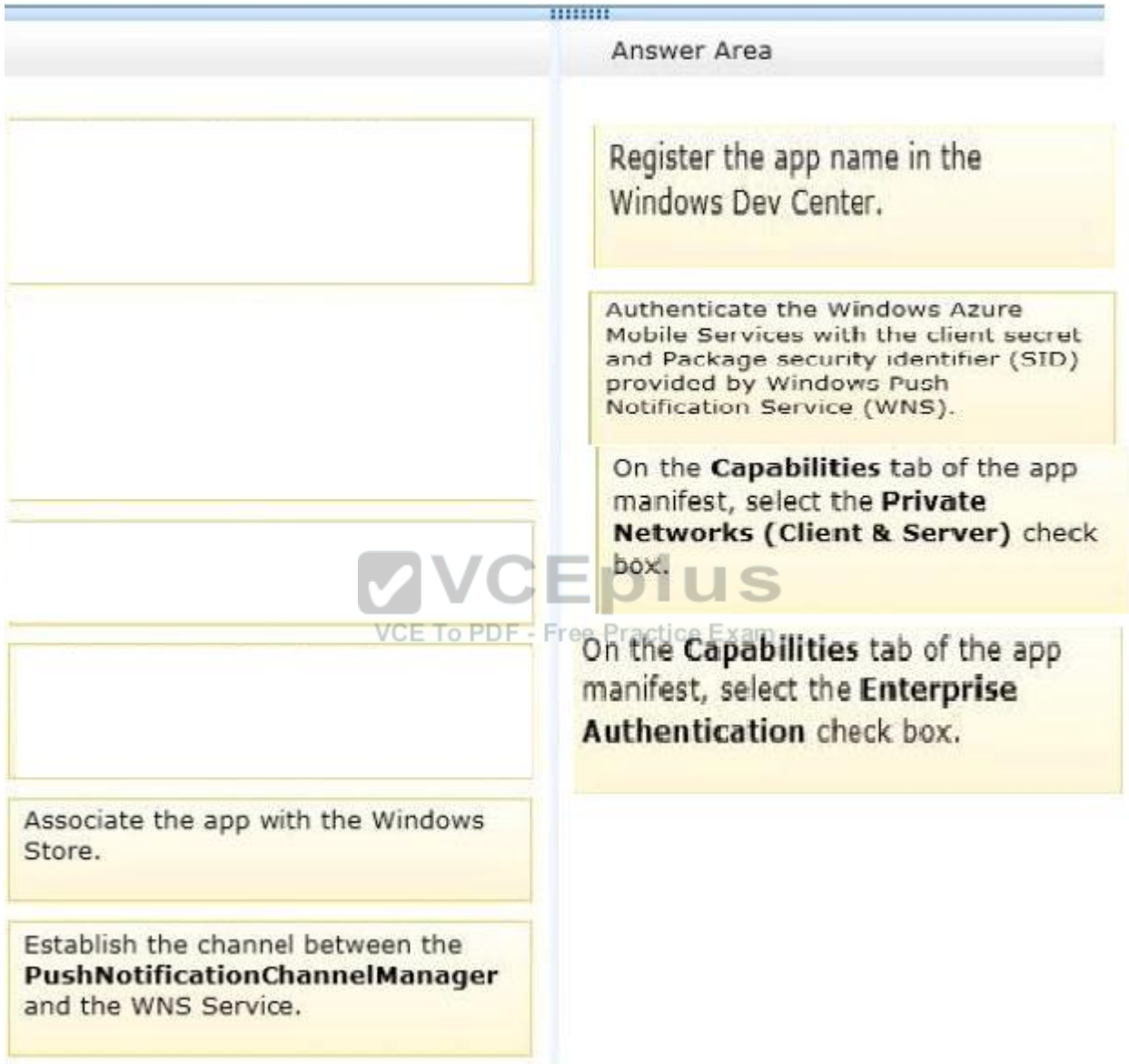

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Section: (none)
Explanation

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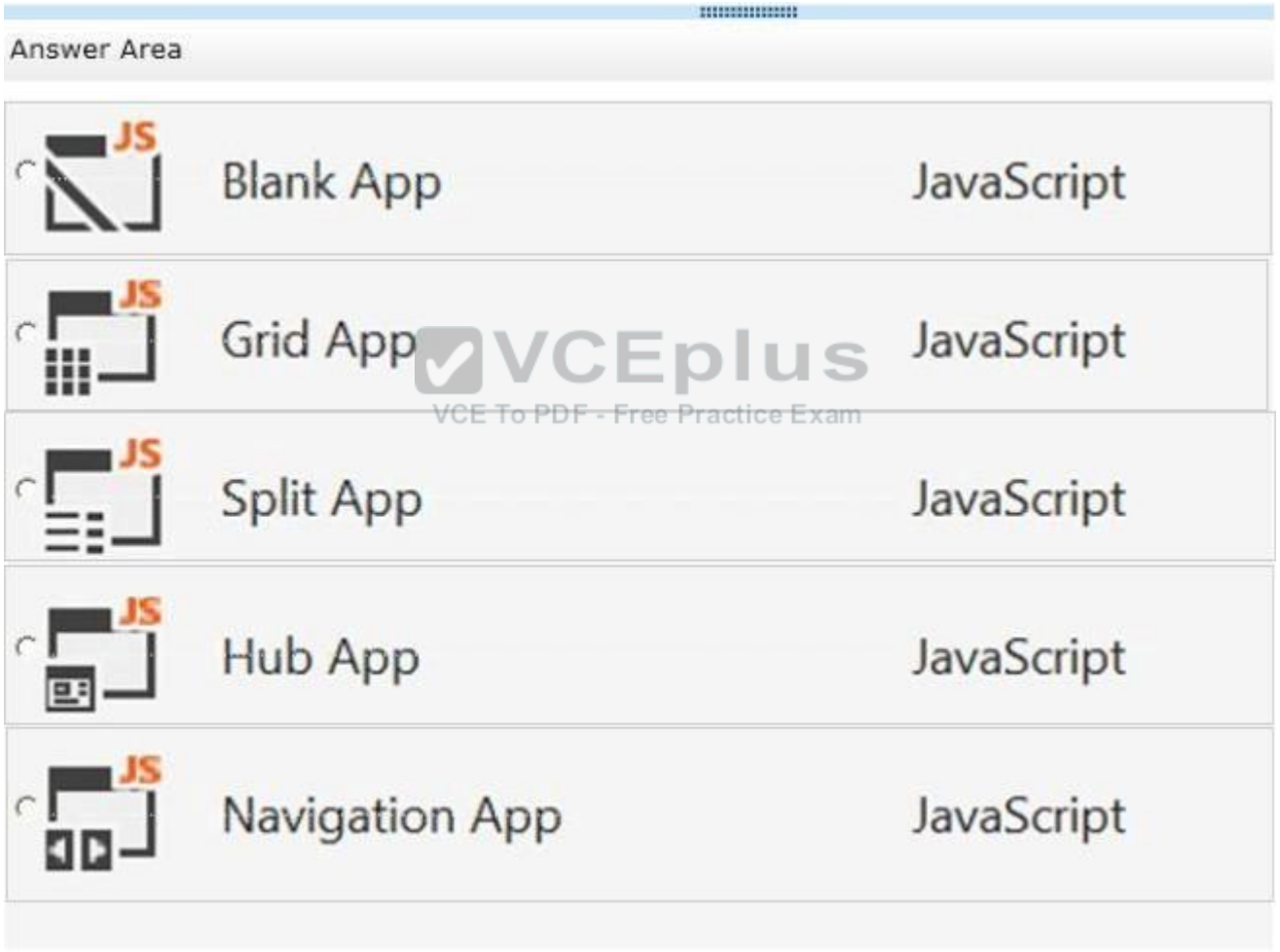
Explanation/Reference:

QUESTION 160
You need to begin the project development.

Which project template should you choose? To answer, select the appropriate project template type in the answer area.

Hot Area:



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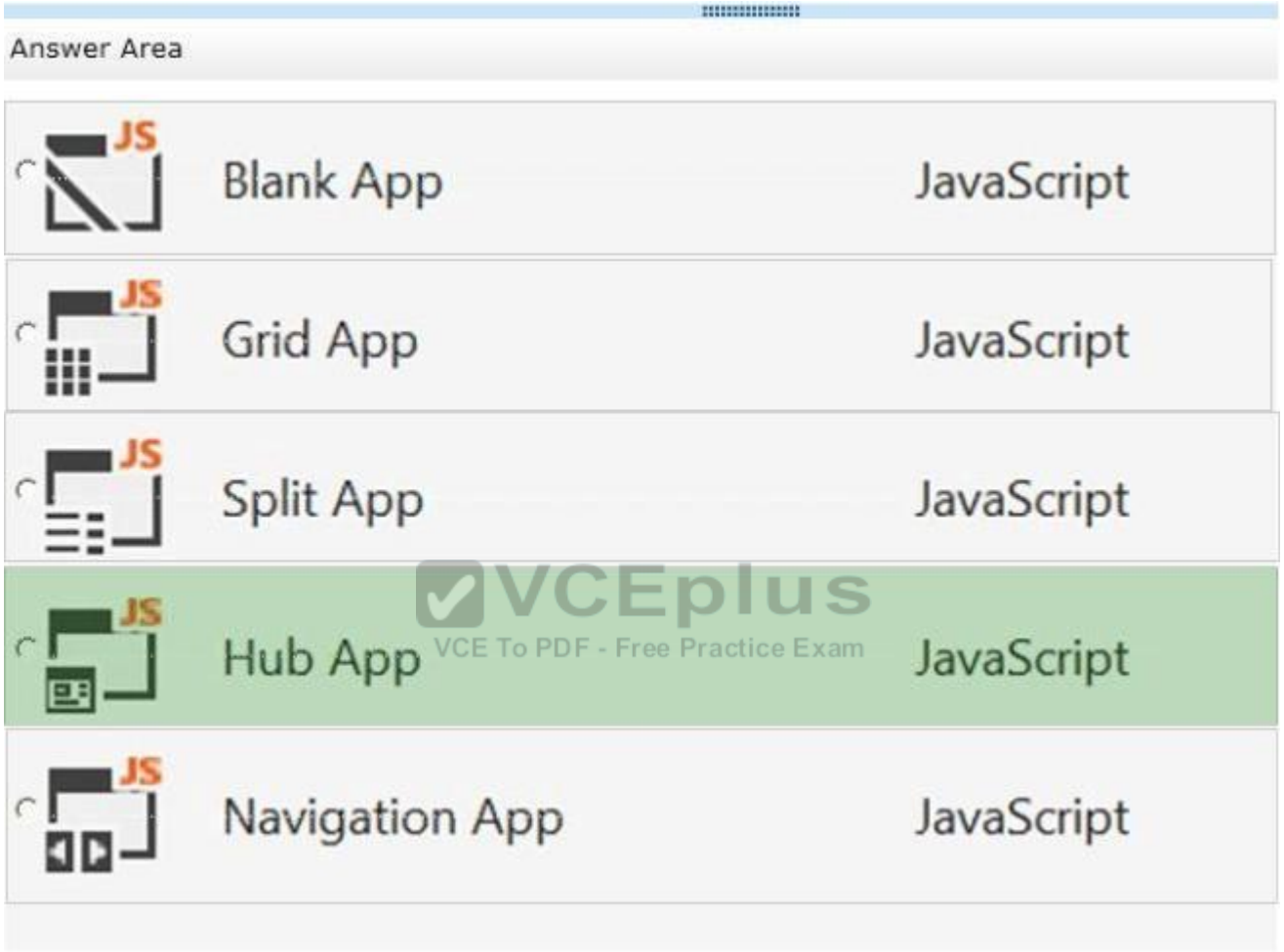
Correct Answer:



Section: (none)
Explanation

Explanation/Reference:

QUESTION 161
You are developing a Windows Store app. The app allows users to browse contacts from a social networking site.

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The app has the following requirements:
The user must be able to select more than one contact at a time.
The app must display all of the details for the selected contacts.

You need to ensure that the requirements are met.

Which code segments should you use? (To answer, select the correct option from each drop-down list in the answer area.)

```
function selectContacts() {
  var picker = Windows.ApplicationModel.Contacts.ContactPicker();
  picker.commitButtonText = "Select";
  picker.selectionMode =
  [                                                    ]
  [                                                    ]
    .then(function (contacts) {
    ...
    });
  });
}
```

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Hot Area:

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```
function selectContacts() {
  var picker = Windows.ApplicationModel.Contacts.ContactPicker();
  picker.commitButtonText = "Select";
  picker.selectionMode =
```

[▼]
- picker.pickSingleContactAsync()
- picker.pickMultipleContactsAsync()
- Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
- Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;

[▼]
- picker.pickSingleContactAsync()
- picker.pickMultipleContactsAsync()
- Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
- Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;

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```
    .then(function (contacts) {
    ...
    });
  });
}
```

Correct Answer:

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```
function selectContacts() {
  var picker = Windows.ApplicationModel.Contacts.ContactPicker();
  picker.commitButtonText = "Select";
  picker.selectionMode =
```

```
picker.pickSingleContactAsync()
picker.pickMultipleContactsAsync()
Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;
```

```
picker.pickSingleContactAsync()
picker.pickMultipleContactsAsync()
Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;
```

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```
    .then(function (contacts) {
    ...
    });
  });
}
```

Section: (none)
Explanation

Explanation/Reference:
ContactSelectionMode enumeration (Windows)
ContactPicker.PickMultipleContactsAsync | pickMultipleContactsAsync method (Windows)

QUESTION 162
You are developing a Windows Store app.

You need to allow the app to share content with other applications.

Which three actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange

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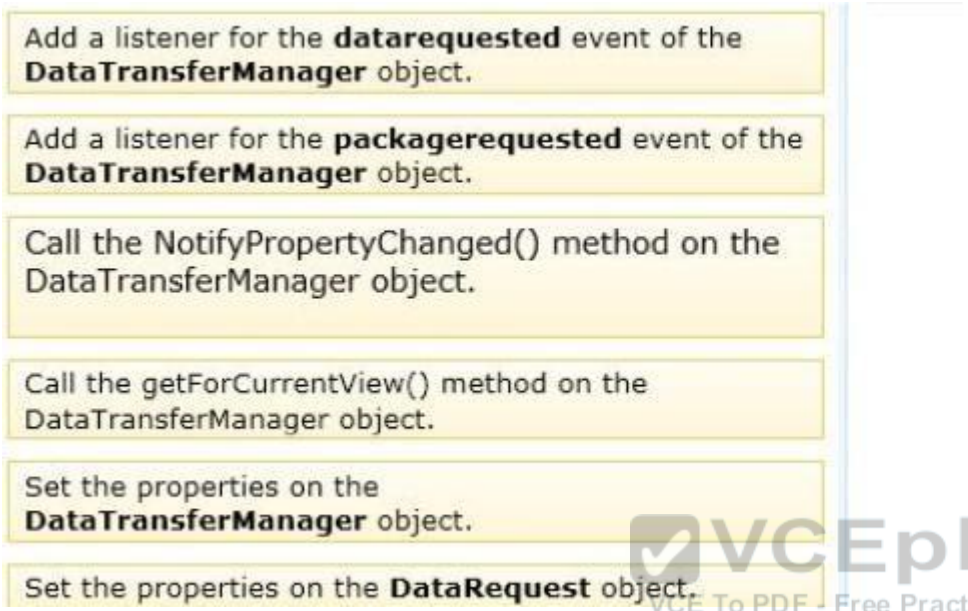
them in the correct order.)

Select and Place:



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Correct Answer:

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Section: (none)
Explanation

Explanation/Reference:
Note:
The DataTransferManager object is the main starting point for any share operation. You'll add a datarequested event handler on the **DataTransferManager** object in the activated event handler of your app. The **datarequested** event occurs when the will.
When adatarequestedevent occurs, your app receives aDataRequestobject. This object contains aDataPackagethat you can use to provide the content that the user wants to share.
Example code (for step 3):
// This app is newly launched; register it as a share source.
var dataTransferManager = Windows.ApplicationModel.DataTransfer.DataTransferManager.getForCurrentView();

Reference:
How to share files (HTML) (Windows)

QUESTION 163
You are developing a Windows Store app.

You need to ensure that a file that is launched by the app is handled when the app is activated.

Which code segment should you use? (To answer, select the correct option from the drop-down list in the answer area.)

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```
function activatedHandler(eventArg) {
  var activationKind =
   Windows.ApplicationModel.Activation.ActivationKind;
  if (eventArg.detail.kind ==                          ) {
    ...
  }
```

Hot Area:

```
function activatedHandler(eventArg) {
  var activationKind =
   Windows.ApplicationModel.Activation.ActivationKind;
  if (eventArg.detail.kind ==                          ) {
    ...
  }
```

- activationKind.cachedFileUpdater
- activationKind.file
- activationKind.fileOpenPicker
- activationKind.fileSavePicker

Correct Answer:

```
function activatedHandler(eventArg) {
  var activationKind =
   Windows.ApplicationModel.Activation.ActivationKind;
  if (eventArg.detail.kind ==                          ) {
    ...
  }
```

- activationKind.cachedFileUpdater
- activationKind.file
- activationKind.fileOpenPicker
- activationKind.fileSavePicker

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 164
You are developing a Windows Store weather app.

You need to restore the state of the app while the app is being reactivated.

Which code segments should you use? (To answer, drag the appropriate code segments to the correct locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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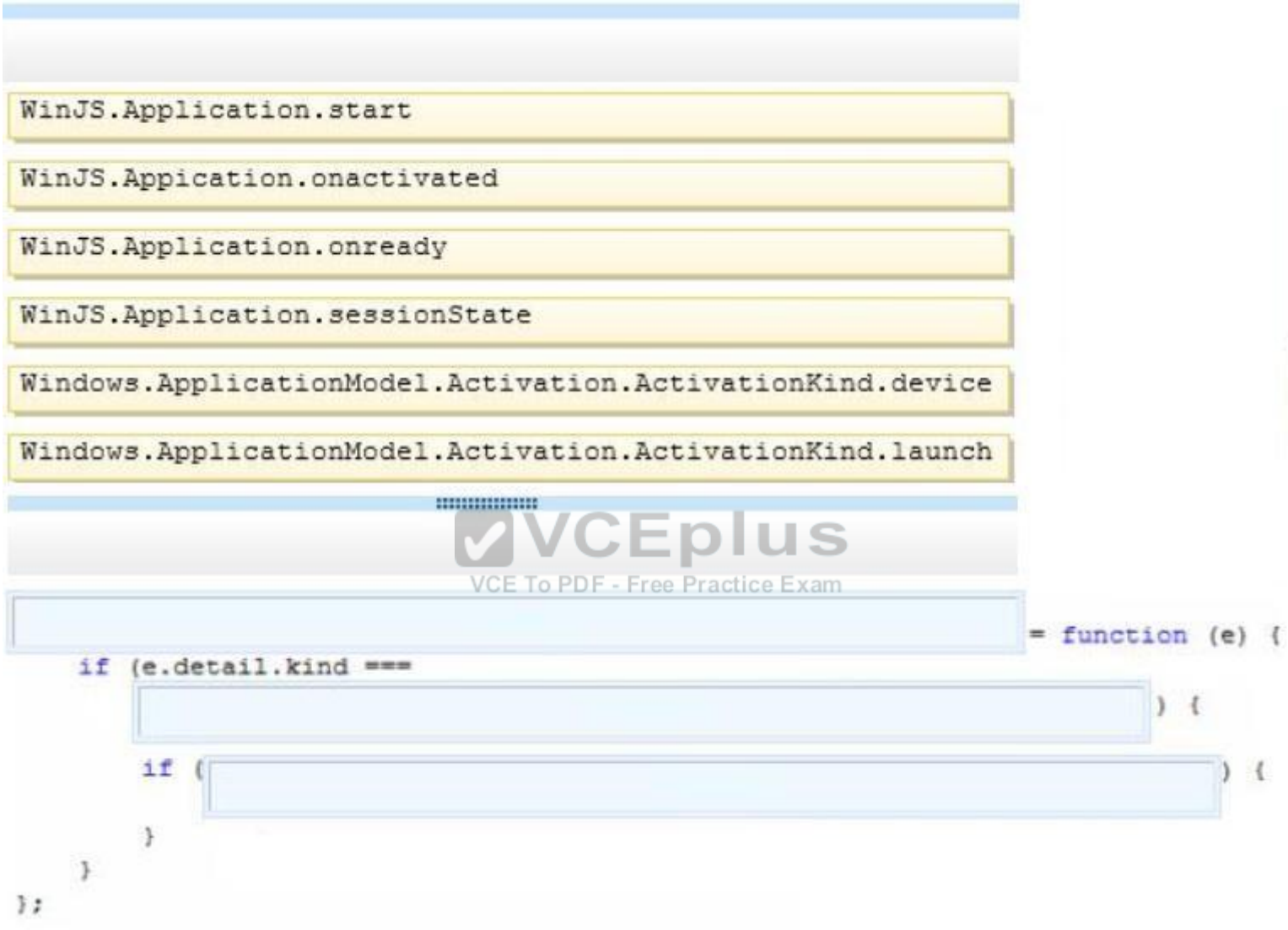

Correct Answer:

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Section: (none)
Explanation

Explanation/Reference:

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Note:
* When a user selects your app to share content, Windows activates your app. Because there are many ways that Windows could activate your app, you need to add code to your activated event handler that detects why the activation occurred. You do this by checking the value of thekind property.
JavaScript

```
app.onactivated = function (args) {
    if (args.detail.kind === activation.ActivationKind.launch) {
        // The application has been launched. Initialize as appropriate.
if (app.sessionState) {
// restore previous state from sessionState
            }
```

Reference:

onactivated event (Windows)
ActivationKind enumeration (Windows)
WinJS.Application.sessionState object (Windows)

QUESTION 165
You are designing a Windows Store app. The app displays prices and other information for various stocks.

The app must allow the user to perform the following actions:
Add and remove stocks.
Search by stocks name.
Display information about stocks.

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You need to add the appropriate features to the app bar.

Which features should you add to the app bar? (To answer, drag the appropriate features to the correct locations in the answer area. Each feature may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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Correct Answer:

Section: (none)
Explanation

Explanation/Reference:
Note:
* Use the app bar
Use the app bar to display commands to users on-demand. The app bar shows commands relevant to the user's context, usually the current page, or the current selection.
* Use context menus
You can use context menus for clipboard actions (like cut, copy, and paste), or for commands that apply to content that cannot be selected (like an image on a web page).

* Use the charms
Leverage the charm and app contracts to enable common app commands. Avoid duplicating app contract functionality on your app's canvas or in the app bar.
/ Search: Let your users quickly search through your app's content from anywhere in the system, including other apps. And vice versa.
/ Share: Let your users share content from your app with other people or apps, and receive shared content.
/ Devices: Let your users enjoy audio, video, or images streamed from your app to other devices in their home network.
/ Settings: Consolidate all of your settings under one roof and let users configure your app with common mechanism they're already be familiar with.

* Use the canvas
Users should be able to complete the core scenarios just by using the canvas. Whenever possible, let users directly manipulate the content on the app's canvas, rather than adding commands that act on the content.
For example, in a Restaurant browsing app, finding and viewing restaurant details should be done on the canvas by tapping, panning, or selecting content.

Reference: Commanding design for Windows Store apps (Windows)

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Charms and contracts
Guidelines for clipboard commands
Guidelines for context menus
Guidelines for app bars

QUESTION 166
You are developing a Windows Store app. The app will be used to manage a task list.

The app has the following requirements:
Support commands to add, remove, filter, and select all items in the task list.
Support navigation to the previous screen.

You need to ensure that the commands are placed according to Microsoft design style guidelines.

Where should you place each command? (To answer, drag each command to the correct placement location. Each answer must be used only once. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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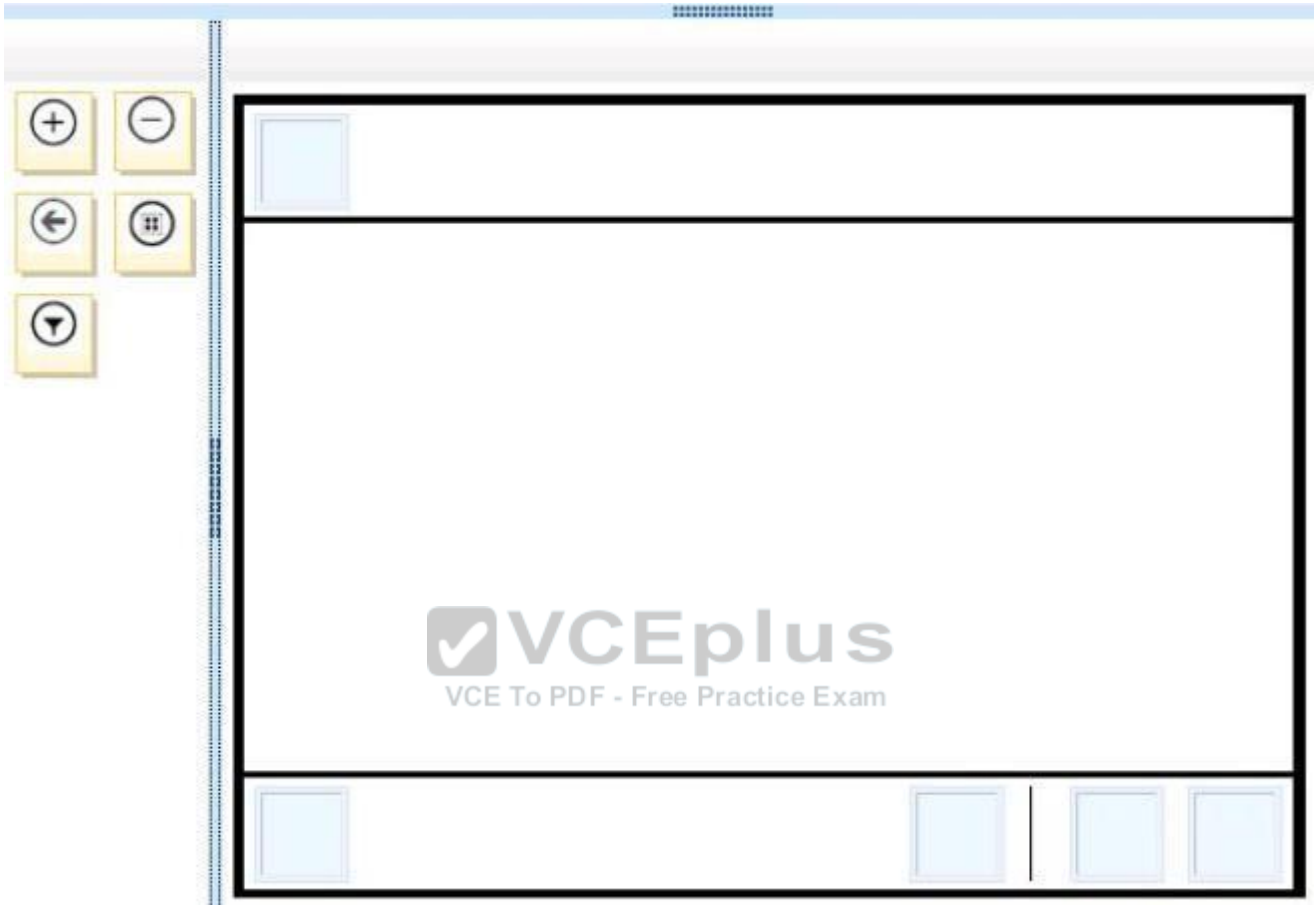

Correct Answer:

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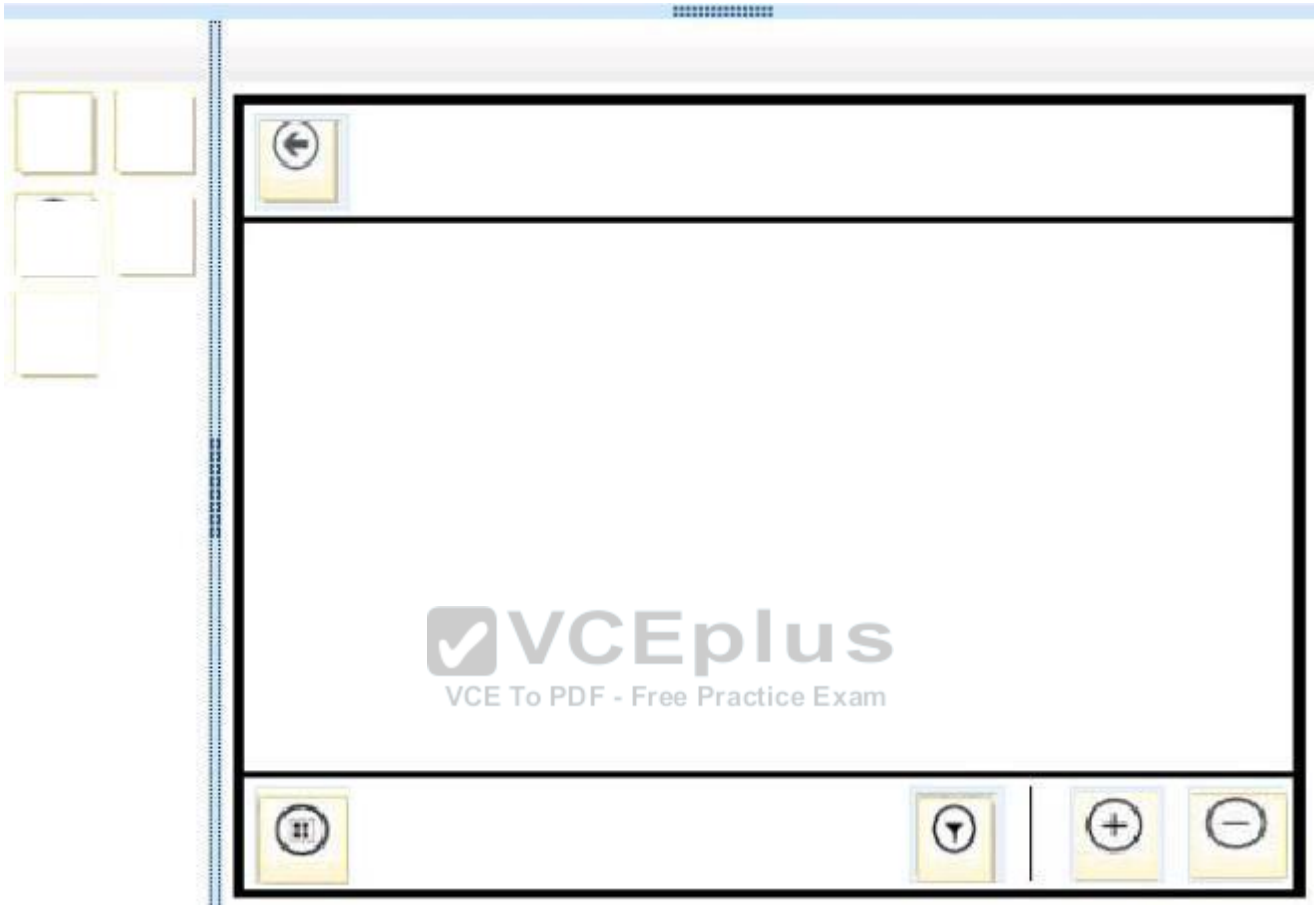

Section: (none)
Explanation

Explanation/Reference:
Note:
Previous screen: top left corner (standard placement)
Use Remove and Add commands if your app is about managing a list, such as a to-do list. Remove and Add should always appear in the order shown here.

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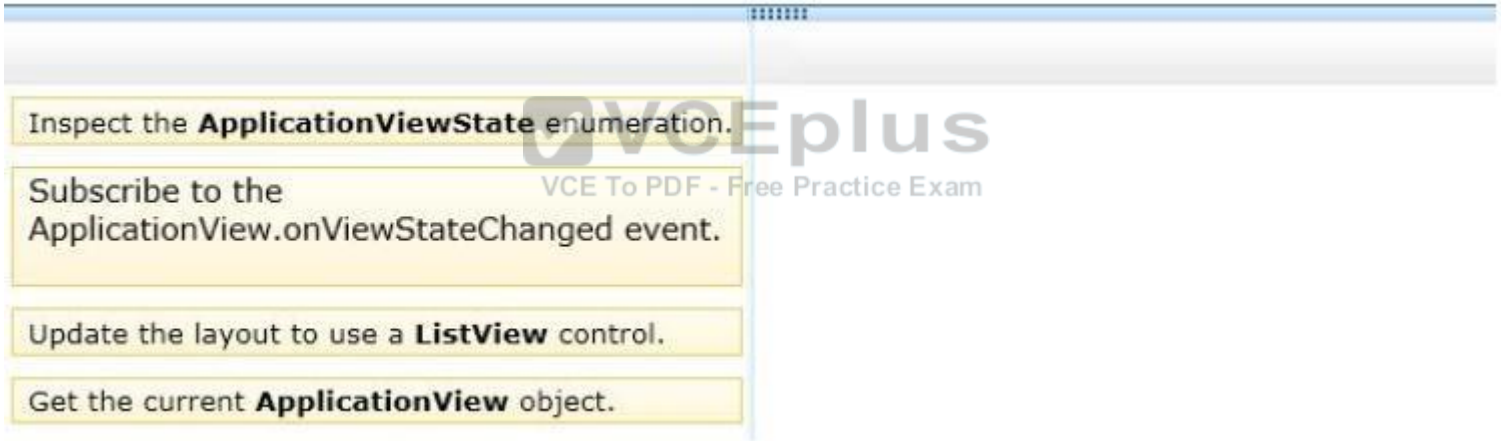
QUESTION 167
You are developing a Windows Store app that allows the user to write reviews for a company's products.

The product selection page must switch to a vertical list layout when the app is snapped.

You need to ensure that the product layout is updated.

Which four actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Select and Place:



Correct Answer:

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Section: (none)
Explanation

Explanation/Reference:
Note:
Step 1: We need to set up the event handler for any Viewstate changes.
This got a lot simpler for the Windows 8 Release Preview. We need only add an event listener to the window resize event like so:

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window.addEventListener("resize", onViewStateChanged);

Step 2-3:
When **onViewStateChanged** runs it enumerates through all available viewstates and passes the current view state to a custom function.
Example code:
When **onViewStateChanged** runs it enumerates through all available viewstates and passes the current view state to a custom function I call **showMenu**.

```
function onViewStateChanged(eventArgs) {
var viewStates = Windows.UI.ViewManagement.ApplicationViewState, msg;
var newViewState = Windows.UI.ViewManagement.ApplicationView.value;
if (newViewState === viewStates.snapped) {
        showMenu('snapped');
    } elseif (newViewState === viewStates.filled) {
        showMenu('filled');
    } elseif (newViewState === viewStates.fullScreenLandscape) {
        showMenu('landscape');
    } elseif (newViewState === viewStates.fullScreenPortrait) {
//Currently not supported
    }
```

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Step 4: Finally handle the layout changes

* ApplicationViewState enumeration specifies the set of app view state changes that can be handled.
The ApplicationViewState enumeration has these members.
A)FullScreenLandscape | fullScreenLandscape0
The current app's view is in full-screen (has no snapped app adjacent to it), and has changed to landscape orientation.
B) Filled | filled1
The current app's view has been reduced to a partial screen view as the result of another app snapping.
C) Snapped | snapped2
The current app's view has been snapped.
D) FullScreenPortrait | fullScreenPortrait3
The current app's view is in full-screen (has no snapped app adjacent to it), and has changed to portrait orientation.

Reference: Handling Fullscreen, Snapped and Filled states in Windows 8 Metro Style apps using CSS3 and JavaScript - DaveDev - Site Home - MSDN Blogs

QUESTION 168
You are developing a Windows Store travel-planning app. An array named dataArray stores information about travel categories.

The array is defined in the following code:

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```
(function () {
  "use strict";

  var dataArray = [
  { title: "Cars", picture: "/images/cars.png" },
  { title: "Cruises", picture: "/images/cruises.png" },
  { title: "Flights", picture: "/images/flights.png" },
  { title: "Hotels", picture: "/images/hotel.png" },
  { title: "Packages", picture: "/images/packages.png" }
  ];

  var dataList = new WinJS.Binding.List(dataArray);
  var publicMembers =
  {
    itemList: dataList
  };
  WinJS.Namespace.define("Travel", publicMembers);
})();
```

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The app must display the title and image for each travel category in a ListView control.

You need to define the HTML for the ListView control.

How should you complete the HTML? (To answer, drag each appropriate attribute or object to the correct location or locations in the answer area. Each attribute or object may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

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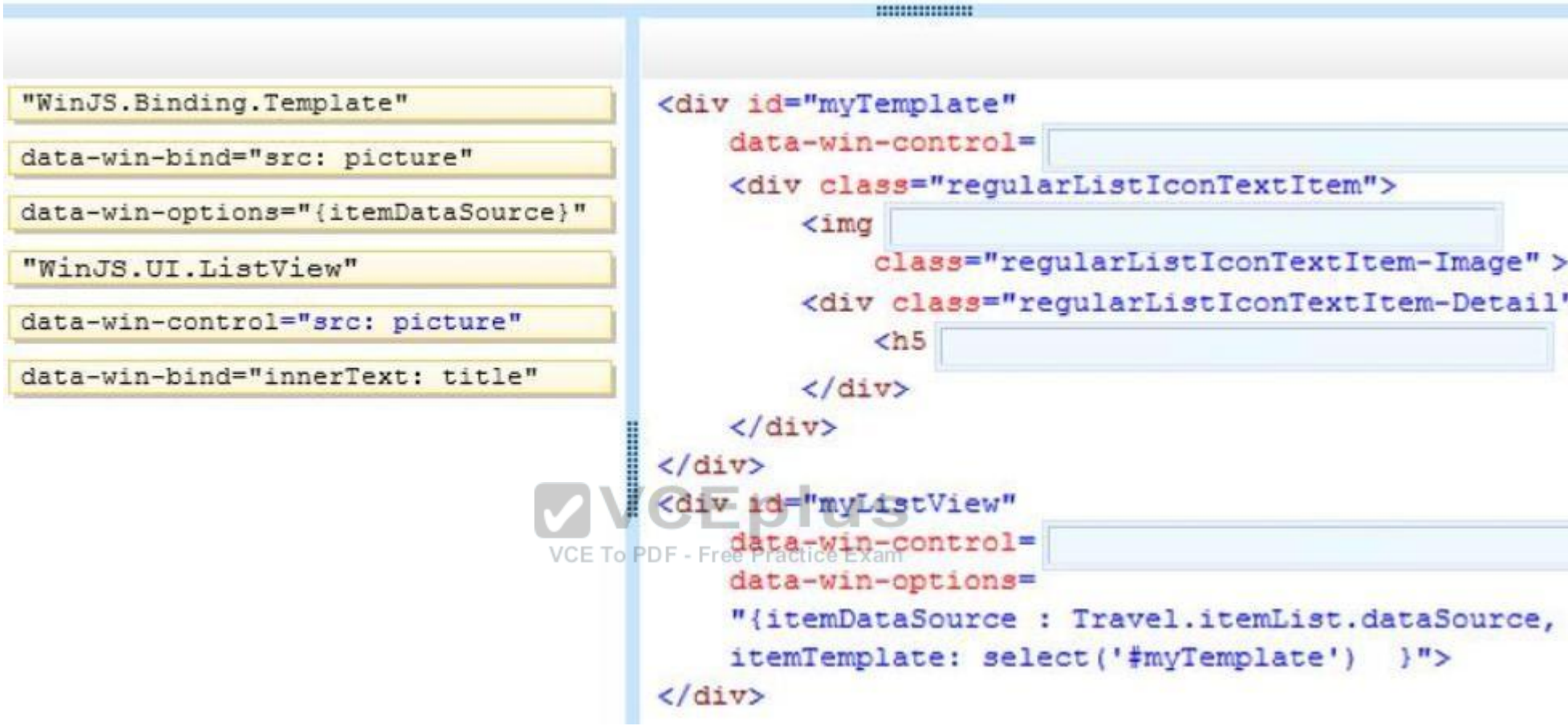

Correct Answer:

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```
data-win-options="{itemDataSource}"

data-win-control="src: picture"
```

```
<div id="myTemplate"
    data-win-control= "WinJS.Binding.Template"
    <div class="regularListIconTextItem">
        <img data-win-bind="src: picture"
            class="regularListIconTextItem-Image" >
        <div class="regularListIconTextItem-Detail"
            <h5 data-win-bind="innerText: title"
        </div>
    </div>
</div>
<div id="myListView"
    data-win-control= "WinJS.UI.ListView"
    data-win-options=
    "{itemDataSource : Travel.itemList.dataSource,
    itemTemplate: select('#myTemplate')  }">
</div>
```

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Section: (none)
Explanation

Explanation/Reference:
Note:
* Use the data-win-bind property to bind a property of an element to a property of a data source.
* The WinJS.UI.ListView object displays data items in a customizable list or grid.
Reference: How to use templates to bind data (Windows Store apps using JavaScript and HTML) (Windows)
Reference: data-win-bind property (Windows)

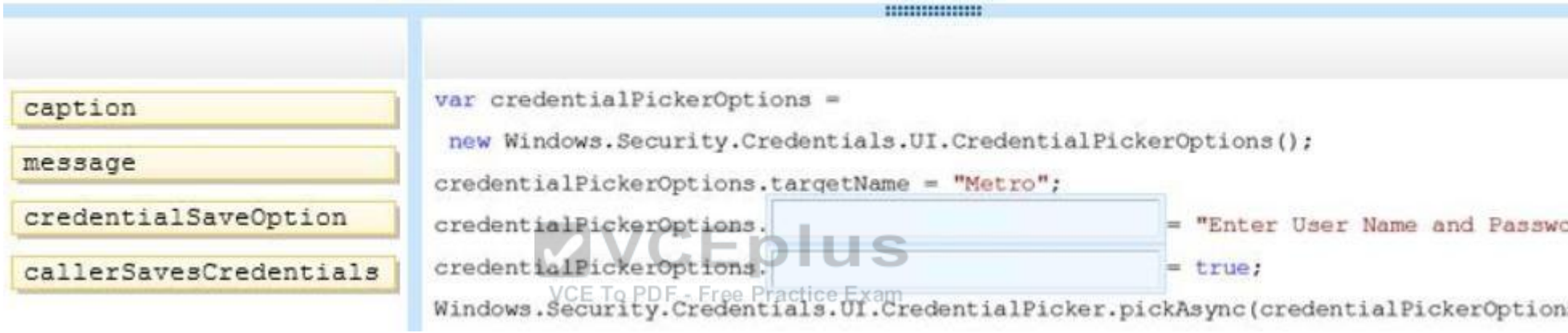
QUESTION 169
You are developing a Windows Store app that uses a CredentialPicker control to collect the user's user name and password credentials.

The CredentialPicker control has the following requirements:
The Remember my credentials check box must be selected by default.
The text "Enter user name and password" must be displayed in the message header of the dialog box.

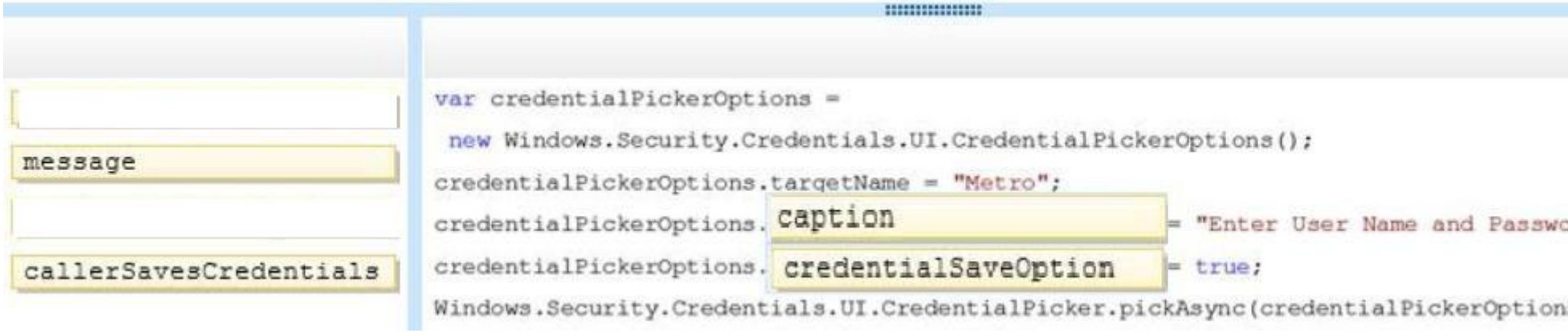
You need to ensure that the requirements are met.

Which properties should you use? (To answer, drag the appropriate properties to the correct locations in the answer area. Each property may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:



Correct Answer:



Section: (none)
Explanation

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Explanation/Reference:
The CredentialPickerOptions controls the appearance and behavior of a credential prompt.
Caption: Gets or sets the caption text that is displayed to the user.
CredentialSaveOption: Gets or sets the option on saving credentials..
The option specifies the initial state of the dialog's "Save Credential" check box. The default value is clear (unchecked).

Incorrect answers:
Message: Gets or sets the body of text that displays to the user.
CallerSavesCredential: Gets or sets whether the caller wants to save the credentials.

Reference: CredentialPickerOptions class (Windows)

QUESTION 170
You need to configure the CredentialPicker object to meet the requirements.

Which code segment should you insert at line GC04?

A. options.callerSavesCredential = false;
B. options.CredentialSaveOption.unselected;
C. options.CredentialSaveOption.selected;
D. options.callerSavesCredential = true;
E. options.CredentialSaveOption.hidden;

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Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
CredentialPickerOptions.CallerSavesCredential | callerSavesCredential property (Windows)

QUESTION 171
You need to implement the code to meet the search requirements. Which code segment should you insert at line NP11?

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A.
```
for (var i = 0, len = suggestionList.length; i < len; i++) {
  if (suggestionList[i] === query) {
    suggestionRequest.searchSuggestionCollection.appendQuerySuggestion
(suggestionList[i]);
```

B.
```
for (var i = 0, len = suggestionList.length; i < len; i++) {
  if (suggestionList[i] === query) {
    suggestionRequest.searchSuggestionCollection.appendResultSuggestion
(suggestionList[i]);
```

C.
```
for (var i = 0, len = suggestionList.length; i < len; i++) {
  if (suggestionList[i].substr(0, query.length).toLowerCase() === query) {
    suggestionRequest.searchSuggestionCollection.appendResultSuggestion
(suggestionList[i]);
```

D.
```
for (var i = 0, len = suggestionList.length; i < len; i++) {
  if (suggestionList[i].substr(0, query.length).toLowerCase() === query) {
    suggestionRequest.searchSuggestionCollection.appendQuerySuggestion
(suggestionList[i]);
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
http://msdn.microsoft.com/en-us/library/windows/apps/windows.applicationmodel.search.searchsuggestioncollection.aspx

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QUESTION 172
You need to implement the code to retrieve news items according to the requirements.

Which code segment should you add to newsPage.js?

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A.
```
function fetchDailyNews(){
  WinJS.xhr({ url: "http://www.southridgevideo.com/feed" })
    .then(function progress(result) {
    progressDiv.innerText = result.readyState;},
    function complete(result) {
      ...
    });
}
```

B.
```
function fetchDailyNews(){
  WinJS.xhr({ url: "http://www.southridgevideo.com/feed" })
    .then(function progress(result) {
      progressDiv.innerText = result.readyState;
    })
    .then(function complete(result) {
      ...
    });
}
```

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C.
```
function fetchDailyNews(){
  WinJS.xhr({ url: "http://www.southridgevideo.com/feed" })
    .done(function progress(result) {
    progressDiv.innerText = result.readyState;
    });
}
```

D.
```
function fetchDailyNews(){
  WinJS.xhr({ url: "http://www.southridgevideo.com/feed" })
    .done(function complete(result) {
    ...
  }, null,
  function progress(result) {
    progressDiv.innerText = result.readyState;
    });
}
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
WinJS.xhr function (Windows)

QUESTION 173
You need to ensure that the app displays only contacts that meet the requirements.

Which code segment should you insert at line EJ03?

A.
```
picker.selectionMode =
Windows.ApplicationModel.Contacts.ContactSelectionMode.fields;
```

B.
```
picker.selectionMode =
Windows.ApplicationModel.Contacts.ContactSelectionMode.contacts;
```

C.
```
picker.desiredFields.append(Windows.ApplicationModel.Contacts.ContactField
("Email",string);
```

D.
```
picker.desiredFields.append
(Windows.ApplicationModel.Contacts.KnownContactField.email);
```

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A. Option A
B. Option B
C. Option C
D. Option D

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Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
KnownContactField class (Windows)

QUESTION 174
You need to ensure that the user can annotate news items according to the requirements.

Which code segment should you insert at line NJ03?

A.
```
return (pointerDeviceType === "Pen" || (pointerDeviceType === "Mouse" && evt.button === 1));
```

B.
```
return (pointerDeviceType === "Pen" || (pointerDeviceType === "Mouse" && evt.button === 0));
```

C.
```
return (pointerDeviceType === "Pen" || (pointerDeviceType === "Mouse" && evt.type === 0));
```

D.
```
return (pointerDeviceType === "Pen" || (pointerDeviceType === "Mouse" && evt.type === 1));
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
http://msdn.microsoft.com/en-us/library/windows/apps/jj883712.aspx

QUESTION 175

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You need to implement the code to meet the requirements for handling changes in the annotation area of the newsItem.html page.

Which event handler should you add to newsItem.js?

A.
```
WinJS.Navigation.addEventListener("beforenavigate", onbeforeNavigate);
function onbeforeNavigate(eventObject) {
  if (hasChanges) {
    eventObject.detail.setPromise(WinJS.Promise.wrap(true));
  }
  else {
    eventObject.detail.setPromise(WinJS.Promise.wrap(false));
  }
}
```

B.
```
WinJS.Navigation.addEventListener("navigating", onNavigating);
function onNavigating(eventObject) {
  if (hasChanges) {
    eventObject.detail.setPromise(WinJS.Promise.wrap(true));
  }
  else {
    eventObject.detail.setPromise(WinJS.Promise.wrap(false));
  }
}
```

C.
```
WinJS.Navigation.addEventListener("beforenavigate", onbeforeNavigate);
function onbeforeNavigate(eventObject) {
  eventObject.detail = null;
}
```

D.
```
WinJS.Navigation.addEventListener("navigating", onNavigating);
function onNavigating(eventObject) {
  eventObject.detail = null;
}
```

A. Option A
B. Option B
C. Option C

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D. Option D

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
onbeforenavigate event (Windows)

QUESTION 176
You need to ensure that the navigation requirements for displaying news items are met.

Which code segment should you insert at line NP04?

A. nav.navigate("/html/newsPage.html");
B. nav.navigate ("/html/newsItem.html", {item: item});
C. nav.forward ("/html/newsItem.html");
D. nav.forward("/html/newsPage.html", {item: item});

Correct Answer: B
Section: (none)
Explanation

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Explanation/Reference:
WinJS.Navigation.navigate function (Windows)

QUESTION 177
You need to implement the code to meet the requirements for displaying content from search results.

Which code segment should you insert at line NP19?

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A.
```
if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.search) {
  var id = FindNewsId(detail.arguments);
```

B.
```
if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.search) {
  var id = FindNewsId(detail.queryText);
```

C.
```
if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {
  var id = FindNewsId(detail.queryText);
```

D.
```
if (detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {
  var id = FindNewsId(detail.arguments);
```

A. Option A
B. Option B
C. Option C
D. Option D

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Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
onactivated event (Windows)
ActivationKind enumeration (Windows)

QUESTION 178
You need to ensure that the requirements for capturing user input on the newsltem.html page are met.

Which code segments should you use? (Each correct answer presents part of the solution.
Choose all that apply.)

A. InkManager.mode = Windows.UI.Input.Inking.InkManipulationMode.selecting;
B. InkManager.mode = Windows.UI.Input.Inking.InkRecognitionTarget.selected;
C. InkManager.mode = Windows.UI.Input.Inking.InkManipulationMode.inking;

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D. InkManager.mode = Windows.UI.Input.Inking.InkRecognitionTarget.all;

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
InkManipulationMode enumeration (Windows)
InkRecognitionTarget enumeration (Windows)

QUESTION 179
You need to ensure that the layout for newsPage.html meets the requirements.

Which layout should you choose?

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A.
```
#MyFlexbox {
  display: -ms-grid;
  background: gray;
  border: blue;
  -ms-grid-columns: auto;
}
```

B.
```
#MyFlexbox {
  display: -ms-flexbox;
  background: gray;
  border: blue;
  -ms-flex-wrap: wrap;
}
```

C.
```
#MyFlexbox{
  display: -ms-flexbox;
  background: gray;
  border: blue;
  -ms-flex-align:stretch;
}
```

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D.
```
#MyFlexbox {
  display: -ms-inline-grid;
  background: gray;
  border: blue;
  -ms-grid-columns: auto;
}
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
flex-wrap property (Windows)

QUESTION 180
You need to implement the saveCredentials method.

Which code segment should you insert at line CM06?

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A.
```
var passwordVault = new Windows.Security.Credentials.PasswordVault();
var credential =
 new Windows.Security.Credentials.PasswordCredential(applicationID, userName,
password);
passwordVault.save(credential);
```

B.
```
var credentialPicker = new Windows.Security.Credentials.UI.CredentialPicker();
var credential =
 new Windows.Security.Credentials.PasswordCredential(applicationID, userName,
password);
credentialPicker.store(credential);
```

C.
```
var credentialPicker = new Windows.Security.Credentials.UI.CredentialPicker();
var credential =
 new Windows.Security.Credentials.PasswordCredential(applicationID, userName,
password);
credentialPicker.save(credential)
```

D.
```
var passwordVault = new Windows.Security.Credentials.PasswordVault();
var credential =
 new Windows.Security.Credentials.PasswordCredential(applicationID, userName,
password);
passwordVault.add(credential);
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Managing application data in a Windows Store business app using C#, XAML, and Prism (Windows)
PasswordVault class (Windows)

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QUESTION 181
You are designing the architecture for the app.

You need to ensure that the logical design fulfills the design pattern requirements.

Which type of object should you create?

A. C# class library
B. Windows Runtime components
C. A single JavaScript file
D. A separate JavaScript file for each page that contains a single enterprise service provider implementation

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Building your own Windows Runtime components to deliver great Metro style apps - Windows 8 app developer blog - Site Home - MSDN Blogs
Creating Windows Runtime Components in C# and Visual Basic

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QUESTION 182
You need to ensure that the about page is displayed.

Which code segment should you insert at line DF13?

A.
```
e.detail.commands = { "about": { href: "/Settings/about.html", title: "About" } };
```

B.
```
e.detail.applicationcommands = { "about": { target: "/Settings/
about.html", title: "About" } };
```

C.
```
e.detail.applicationcommands = { "about": { href: "/Settings/
about.html", title: "About" } };
```

D.
```
e.detail.commands = { "about": { target: "/Settings/about.html", title: "About" } };
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
http://msdn.microsoft.com/en-us/library/windows/apps/Hh701259.aspx

QUESTION 183
You need to ensure that the settings for the About page meet the business requirements.

Which attribute should you add to the DIV element in line AB07?

A. data-win-options="{width:'narrow'}"
B. data-win-options="{width:'346'}"
C. data-win-options="{size:'narrow'}"
D. data-win-options={size:'346'}"

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Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
SettingsFlyout.width property (Windows)

QUESTION 184
You need to ensure that the about.html page is displayed. Which code segment should you insert at line DF13?

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A.
```
e.detail.commandsrequested += { "about": { target: "/Settings/
about.html", title: "About" } };
```

B.
```
e.detail.applicationcommands = { "about": { href: "/Settings/
about.html", title: "About" } };
```

C.
```
e.detail.applicationcommands = { "about": { src: "/Settings/
about.html", title: "About" } };
```

D.
```
e.detail.commandsrequested += { "about": { href: "/Settings/
about.html", title: "About" } };
```

A. Option A
B. Option B
C. Option C
D. Option D

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Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
http://msdn.microsoft.com/en-us/library/windows/apps/Hh701259.aspx

QUESTION 185
You need to ensure that the JavaScript object that is defined in the credentialManager.js file can be consumed by other Windows Store apps that are written in different programming languages.

How should you rewrite the code?

A. As a WinJS.Class object
B. As an ASP.NET server control
C. As a Windows Runtime component
D. As an XAML control

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Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Building your own Windows Runtime components to deliver great Metro style apps - Windows 8 app developer blog - Site Home - MSDN Blogs

QUESTION 186
You need to ensure that the about.html page is displayed according to the requirements.

Which attribute should you add to the DIV element in line AB07?

A. data-win-control="WinJS.UI.GridLayout"
B. data-win-control="WinJS.UI.AppBar
C. data-win-control="WinJS.UI.ListLayout"
D. data-win-control="WinJS.UI.SettingsFlyout"

Correct Answer: B
Section: (none)
Explanation

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Explanation/Reference:
http://msdn.microsoft.com/en-us/library/windows/apps/br229670.aspx

Topic 3, Tailspin Toys

Background
You are developing a Windows Store app for Tailspin Toys. The app will allow customers to interact with toys online and to order toys.

Business Requirements
User Interface
The user interface must display toy categories, toys in each category, and product details about the toys. The product details must include the toy name, description, and one or more photos in different views. The toy categories must be distinct, and each toy must belong to only one category at a time.
The display of toy categories must remain at the top of the screen at all times. The display of all product details must be arranged in a grid. The user interface must allow the user to zoom images of toys, with a maximum zoom factor of five.
When inventory changes, the app must raise a toast notification with a brief sound alert. The toast notification must remain on the screen for five seconds. The area that displays the details of a single toy has the following requirements:
o It must be one-third of the size of the area of the toy detail grid.
o It must be on the left.

Settings
All settings must use the Settings charm.

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The app must provide help and information.

Behavior
The app must restore user toy selection during an unexpected app termination. The app state must be restored when the app is activated after termination.

Technical Requirements
General
App calls must initialize the TailspinArtUpdater object in response to a Process Lifetime Management (PLM) notification.
The app includes a library named ToyInventory, which will be used to access the toy inventory system. The library includes a method named DisplayInventory(). Any compiler-generated metadata produced from this library must be consumable by JavaScript, C ++, and C# Windows Store apps.

The app must include an HTML5 control that has the following requirements:
It must use a GetToyInventory event to display app settings. It must have a relative path of html/ToyInventory.html. It must be invoked by using a link named Show Inventory, which displays in-context access to settings.

Styling
The styling details of the app must be located in the default CSS file.

Help and information
The app will call a function named LoadHelpContent to load help content from tailspintoys.html.
The app will display the help content by using the SettingsFlyout control.

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Application Structure
Relevant portions of the app files are shown below. (Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.)

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updateLayout.js

```
UL01 var ui = WinJS.UI; updateLayout: function (element, viewState) {
UL02   var listView = element.querySelector(".groupeditemslist").winControl;
UL03     if (viewState === appViewState.snapped) {
UL04       ui.setOptions(listView, {
UL05       itemDataSource: data.groups.dataSource,
UL06       groupDataSource: null,
UL07       layout: new ui.ListLayout()
UL08     });
UL09   }
UL10   else {
UL11     var groupDataSource =
          data.items.createGrouped(this.groupKeySelector, this.groupDataSelector);
UL12     ui.setOptions(listView, {
UL13      itemDataSource: data.items.dataSource,
UL14
UL15
UL16     });
UL17   }
UL18 }
```

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showToast.js

```
ST01 function showToast()
ST02 {
ST03    var notifications = Windows.UI.Notifications;
ST04    var notificationManager = notifications.ToastNotificationManager;
ST05    var template = notifications.toastTemplateType.toastImageAndText01;
ST06    var toastXml =
         notificationManager.getTemplateContent(notifications.ToastTemplateType
[template]);
ST07    var images = toastXml.getElementsByTagName("image");
ST08    images[0].setAttribute("src", "images/ToyInventoryChange.png");
ST09    var textNodes = toastXml.getElementsByTagName("text");
ST10    textNodes.appendChild(toastXml.createTextNode("Toy Inventory Changed"));
ST11
ST12
ST13 }
```

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showHelp.js

```
SH01 function showHelp() {
SH02
SH03
SH04    LoadHelpContent();
SH05
SH06
SH07 }
```

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default.js

```
DF01 var app = WinJS.Application;
DF02

DF03   if (eventObject.detail.kind === Windows.ApplicationModel.Activation.ActivationKin
d.launch) {
DF04     if (eventObject.detail.previousExecutionState !==
DF05       Windows.ApplicationModel.Activation.ApplicationExecutionState.terminated) {
DF06       TailspinArtUpdater.Initialize();
DF07     }
DF08     else {
DF09       TailspinArtUpdater.Restore();
DF10     }
DF11     WinJS.UI.processAll();
DF12   }
DF13 }
```

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QUESTION 187
You need to ensure that the app meets the business requirements for user interface design.

Which code segment should you insert at line UL15?

A. layout: new ui.ListLayout (ui.GridLayout{ horizontal: "false" })
B. layout: new ui.GridLayout({ groupHeaderPosition: "top" })
C. layout: new ui.ListLayout({ horizontal: "false" })
D. layout: new ui.GridLayout(ui. ListLayout{ groupHeaderPosition: "top" })

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
GridLayout.groupHeaderPosition property (Windows)

QUESTION 188
You need to ensure that the app maintains information according to the requirements.

Which event handlers should you implement? (Each correct answer presents part of the solution.

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Choose all that apply.)

A. loaded
B. activated
C. onsettings
D. oncheckpoint

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:
onactivated event (Windows)
oncheckpoint event (Windows)

QUESTION 189
You need to implement the event that will provide access to app settings.

Which code segment should you use?

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A.
```
function GetToyInventory() {
  WinJS.Application.onsettings = function (e) {
    e.detail.applicationcommands = {
      "ToyInventoryDiv": { title: "Show Inventory", href: "/html/
ToyInventory.html" }
    };
  WinJS.UI.SettingsFlyout.populateSettings(e);
}
```

B.
```
function GetToyInventory() {
  WinJS.UI.SettingsFlyout.showSettings("Show Inventory","/html/ToyInventory.html");
}
```

C.
```
function GetToyInventory() {
  WinJS.Application.onsettings = function (e) {
    WinJS.UI.SettingsFlyout.populateSettings(e.applicationcommands = {
      "ToyInventoryDiv": { title: "Show Inventory", href: "/html/
ToyInventory.html" }
    })
  };
}
```

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D.
```
function GetToyInventory() {
  WinJS.UI.SettingsFlyout.show("Show Inventory", "/html/ToyInventory.html");
}
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
WinJS.UI.SettingsFlyout object (Windows)

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QUESTION 190
You need to ensure that the compiler-generated metadata for the ToyInventory library meets the requirements.

Which compiler and associated switch should you use?

A. Use the MIDL.exe compiler with the /win64 switch.
B. Use the MIDLRT.exe compiler with the /winmd switch.
C. Use the MIDLRT.exe compiler with the /winrt switch
D. Use the MDMERGE.exe compiler.with the /v switch.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
MIDLRT and Windows Runtime components (Windows)
/winrt switch (Windows)

QUESTION 191
You need to ensure that the app presents notifications according to the requirements.

Which code segment should you insert at line ST11?

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A.
```
var duration = toastXml.getElementsByTagName("duration");
duration[0].setAttribute("toast", toastContent.ToastDuration.long);
```

B.
```
var duration = toastXml.getElementsByTagName("toast");
duration[1].setAttribute("duration", toastContent.ToastDuration.short);
```

C.
```
var duration = toastXml.getElementsByTagName("toast");
duration[0].setAttribute("duration", toastContent.ToastDuration.short);
```

D.
```
var duration = toastXml.getElementsByTagName("duration");
duration[1].setAttribute("toast", toastContent.ToastDuration.long);
```

A. Option A

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B. Option B
C. Option C
D. Option D

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
ToastNotifier.Show | show method (Windows)

QUESTION 192
You need to handle inventory changes according to the requirements.

Which code segment should you insert at line ST12?

A.
```
notificationManager.createToastNotifier().getScheduledToastNotifications(toastXml);
```

B.
```
var toast = new notifications.ToastNotification(toastXml);
notificationManager.createToastNotifier().show(toast);
```

C.
```
var toast = new notifications.ToastNotification(toastXml);
notificationManager.createToastNotifier().getScheduledToastNotifications(toast);
```

D.
```
notificationManager.createToastNotifier().show(toastXml);
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
ToastNotifier.Show | show method (Windows)

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QUESTION 193
You need to implement the business requirement for the layout of the user interface.

Which navigation design patterns should you implement? (Each answer presents part of the solution. Choose all that apply)

A. Use the Detail pages hierarchical system design pattern to display toys that belong to a category.
B. Use the Flat system design pattern to navigate the different toy categories.
C. Use the Hub pages hierarchical system design pattern to navigate the different toy categories.
D. Use the Section pages hierarchical system design pattern to display toys that belong to a category.

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:
Navigation patterns (Windows Store apps) (Windows)

QUESTION 194
You need to ensure that the app meets the business requirements for user interface design.

Which code segment should you insert at line UL15?

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A. layout: new ui.GridLayout({ groupHeaderPosition: "left" })
B. layout: new ui.GridLayout({ groupHeaderPosition: "top" })
C. layout: new ui.GridLayout(ui. ListLayout{ groupHeaderPosition: "left" })
D. layout: new ui.GridLayout(ui. listLayout{ groupHeaderPosition: "top" })

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
ListLayout.groupHeaderPosition property (Windows)

Topic 4, Automotive Manufacturer

Background
You are developing an app for an automotive manufacturer. The app will display information about the vehicle, the vehicle owner's manual, and the maintenance schedule. The app will be available to install from the Windows Store.

Business Requirements

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The app must meet the following business requirements:
Display the company logo on the Main screen. Owner's Manual screen, and Service Record screen of the app.
Allow users to store their vehicle information to identify the correct information to display within the app.
Prominently display a stock image of the user's vehicle on the Main screen at the full height of the app.
Send notifications by using tile updates when a scheduled maintenance is approaching or past due.
Insert service data in the appropriate locations, and update the Service Record screen with data received from a cloud service.
Display related media within the app.

Technical Requirements
The app must meet the following technical requirements.

User Experience
The app user interface must follow Microsoft design guidelines. The user must be able to insert or update service records. The user must be able to filter service records by date or service type. The user must be able to navigate between various parts of the app including but not limited to the Main screen, Service Record screen, and Owner's Manual screen. The user cannot switch between categories by using the Back button. The data from the cloud service must automatically populate the Service Record screen. The Main screen must have a dark background. All other screens must have a light background with contrasting colored text.
All multimedia must provide a full-screen mode that can be activated by the end user. All media items must start when the user interacts with them and stop immediately when a video ends.
The app must accept and display tile messages and notification messages from the cloud service.
The navigational icons must not be displayed if the content of the screen does not require such display.
Any page of the owner's manual must be able to be pinned to the Windows Start screen. When the app is pinned to the Windows Start screen all live tile sizes must be available to the users.
When a specific app page is pinned to the Windows Start screen, the page tile cannot be wider or taller than the dimensions of a wide tile. Short names and display names must not be displayed on square tiles.
Development
The app must use Microsoft Visual Studio preconfigured templates with built-in data structures.
External notifications must be delivered by using Windows Push Notification Services (WNS).
The app must be able to receive push notifications from a Windows Azure Mobile Services endpoint.
Each HTML file must be supported by similarly named JavaScript and CSS files (for example, myFile.html, myFile.js, myFile.css).

File: main.html
Relevant portions of the app files are shown below. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

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```
MH01  <!DOCTYPE html>
MH02  <html>
MH03  <head>
MH04  ...
MH05  <div class="section3" data-win-control="WinJS.UI.HubSection" data-win-
options="{ isHeaderStatic: true }"
MH06   data-win-res="{ winControl: {'header': 'Section3'} }">
MH07    <div class="top-image-row">
MH08      <video id="playMedia" style="position: relative;" poster="/images/
blank1.jpg"></video>
MH09    </div>
MH10    <div class="sub-image-row">
MH11      <img src="/images/media1.jpg" id="playMedia1" />
MH12      <img src="/images/media2.jpg" id="playMedia2" />
MH13      <img src="/images/media3.jpg" id="playMedia3" />
MH14    </div>
MH15    <div class="win-type-medium" data-win-res="{ textContent:
'DescriptionText' }"></div>
MH16    <div class="win-type-small">
MH17      <span data-win-res="{ textContent: 'Section3Description' }"></span>
MH18    </div>
MH19  </div>
MH20  ...
MH21  </html>
```

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File: main.js
Relevant portions of the app files are shown below. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

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```
MJ01  (function () {
MJ02    "use strict";
MJ03    ...
MJ04    });
MJ05  })();
MJ06  function playMedia(e) {
MJ07    return function () {
MJ08      var vid = WinJS.Utilities.query("#playMedia")[0];
MJ09      switch(e)
MJ10      {
MJ11        case 1:
MJ12          src = "media/movie1.mp4";
MJ13          break;
MJ14        case 2:
MJ15          src = "media/movie2.mp4";
MJ16          break;
MJ17        default:
MJ18          src = "media/movie3.mp4";
MJ19      }
MJ20      vid.src = src;
MJ21      vid.play();
MJ22    };
MJ23  }
```

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File: manual.html
Relevant portions of the app files are shown below. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

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```
OH01  <!DOCTYPE html>
OH02  <html>
OH03  <head>
OH04    <meta charset="utf-8" />
OH05    <title>manual</title>
OH06    <link href="//Microsoft.WinJS.2.0/css/ui-dark.css" rel="stylesheet" />
OH07    <script src="//Microsoft.WinJS.2.0/js/base.js"></script>
OH08    <script src="//Microsoft.WinJS.2.0/js/ui.js"></script>
OH09    <link href="manual.css" rel="stylesheet" />
OH10    <script src="manual.js"></script>
OH11  </head>
OH12  <body>
OH13    <div class="manual fragment">
OH14      <header aria-label="Header content" role="banner">
OH15        <button data-win-control="WinJS.UI.BackButton"></button>
OH16        <h1 class="titlearea win-type-ellipsis">
OH17          <span class="pagetitle">Owner's Manual</span>
OH18        </h1>
OH19      </header>
OH20      <section aria-label="Main content" role="main">
OH21        <p>Owner's Manual Content</p>
OH22      </section>
OH23      <div id="appBar" data-win-control="WinJS.UI.AppBar" data-win-options="">
OH24        <button data-win-control="WinJS.UI.AppBarCommand"
             data-win-options="{id:'cmdPin',label:'Pin To Start',icon:'pin',
             section:'global',tooltip:''}"></button>
OH25      </div>
OH26    </div>
OH27  </body>
OH28  </html>
```

File: manual.js
Relevant portions of the app files are shown below. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

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```
OJ01  (function () {
OJ02    "use strict";
OJ03    WinJS.UI.Pages.define("/pages/manual/manual.html", {
OJ04      ready: function (element, options) {
OJ05        document.getElementById("cmdPin").addEventListener
("click", pinSecondaryTile, false);
OJ06        var navState = {
OJ07        backStack: WinJS.Navigation.history.backStack.slice(0),
OJ08        forwardStack: WinJS.Navigation.history.forwardStack.slice(0),
OJ09        current: WinJS.Navigation.history.current
OJ10        };
OJ11        WinJS.Navigation.history = navState;
OJ12
OJ13      },
OJ14      unload: function () {
OJ15      },
OJ16      updateLayout: function (element) {
OJ17      }
OJ18    });

OJ19    function pinSecondaryTile() {
OJ20      var SecondaryTileId = "SecondaryTile.Logo";
OJ21      var square70x70Logo =
           new Windows.Foundation.Uri("ms-appx:///Images/square70x70Tile-sdk.png");
OJ22      var square150x150Logo =
           new Windows.Foundation.Uri("ms-appx:///Images/square150x150Tile-sdk.png");
OJ23      var wide310x150Logo =
           new Windows.Foundation.Uri("ms-appx:///Images/wide310x150Tile-sdk.png");
OJ24      var square30x30Logo =
           new Windows.Foundation.Uri("ms-appx:///Images/square30x30Tile-sdk.png");
OJ25      var var1 = new Date();
OJ26      var newTileActivationArguments = SecondaryTileId + " WasPinnedAt=" + var1;
OJ27      var tile = new Windows.UI.StartScreen.SecondaryTile(SecondaryTileId,"Owner's
Manual",
           newTileActivationArguments,
           square150x150Logo,
           Windows.UI.StartScreen.TileSize.Square150x150);
OJ28      tile.visualElements.wide310x150Logo = wide310x150Logo;
OJ29      tile.visualElements.square30x30Logo = square30x30Logo;
OJ30
OJ31      tile.visualElements.foregroundText =
Windows.UI.StartScreen.ForegroundText.dark;
OJ32      tile.requestCreateForSelectionAsync({ x: 0, y: 0, width: 640, height: 400 },
           Windows.UI.Popups.Placement.below);
OJ33    }
OJ34  })();
```

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File: service.html
Relevant portions of the app files are shown below. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

```
SH01  <!DOCTYPE html>
SH02  <html>
SH03  <head>
SH04    ...
SH05  </head>
SH06  <body>
SH07
SH08  </body>
SH09  </html>
```

File: service.js
Relevant portions of the app files are shown below. Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

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```
SJ01  (function () {
SJ02    "use strict";
SJ03    WinJS.UI.Pages.define("/pages/service/service.html", {
SJ04      ready: function (element, options) {
SJ05        var buttonSave = document.getElementById("btnAddServiceRecord");
SJ06        var client = new WindowsAzure.MobileServiceClient(
SJ07          "https://cardataservice17.azure-mobile.net/","myPrivateKey"
SJ08        );
SJ09        ...
SJ10    });

SJ11    function updateTile() {
SJ12      var Notification = Notification;
SJ13      var square310x310Xml = Notification.TileUpdateManager.getTemplateContent
           (Notification.TileTemplateType.tileSquare310x310Text05);
SJ14      square310x310Xml.getElementsByTagName("text")[0].setAttribute("id", "1");
SJ15      square310x310Xml.getElementsByTagName("text")[0].appendChild
           (square310x310Xml.createTextNode("My Alert"));
SJ16      var wide310x150Xml = Notification.TileUpdateManager.getTemplateContent
           (Notification.TileTemplateType.tileWide310x150Text03);
SJ17      var tileTextAttributes = wide310x150Xml.getElementsByTagName("text");
SJ18      tileTextAttributes[0].appendChild(wide310x150Xml.createTextNode("My Alert"));
SJ19      var square150x150Xml = Notification.TileUpdateManager.getTemplateContent
           (Notification.TileTemplateType.tileSquare150x150Text04);
SJ20      var squareTileTextAttributes = square150x150Xml.getElementsByTagName("text");
SJ21      squareTileTextAttributes[0].appendChild(square150x150Xml.createTextNode
("My Alert"));
SJ22      var node =
           square310x310Xml.importNode(square150x150Xml.getElementsByTagName("binding")
           .item(0), true);
SJ23      square310x310Xml.getElementsByTagName("visual").item(0).appendChild(node);
SJ24      node =
           square310x310Xml.importNode(wide310x150Xml.getElementsByTagName("binding")
           .item(0), true);
SJ25      square310x310Xml.getElementsByTagName("visual").item(0).appendChild(node);
SJ26      var appNotification = new Notification.TileNotification(square310x310Xml);
SJ27
SJ28    }
SJ29  })();
```

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QUESTION 195
You need to implement the navigation between screen categories.

What should you do?

A. Place one link for each category on every screen and use an <href> tag to go to the category screens.
B. Implement category navigation controls on the nav bar on every screen.
C. Place one button for each category on every screen and use the WinJS.navigate command to go to the category screens.
D. Implement category navigation controls on the app bar on every screen.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Navigation patterns (Windows Store apps) (Windows)

QUESTION 196
You need to implement the app bar for the Service Record screen.

Which markup segment should you insert at line SH07?

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
WinJS.UI.AppBar object (Windows)
WinJS.UI.AppBarCommand object (Windows)

QUESTION 197
You need to modify the app so that the user can play videos by tapping the screen.

What should you do?

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A. Replace line MH08 with the following markup segment:

```
<video id="playMedia" style="position: relative;" control poster="/images/
blank1.jpg"></video>
```

B. Replace line MH08 with the following markup segment:

```
<video id="playMedia" style="position: relative;" loop poster="/images/
blank1.jpg"></video>
```

C. Insert the following code segment at line MJ20:

```
vid.scr.attrib = vid.fullScreen();
```

D. Replace line MJ21 with the following code segment:

```
vid.play.focus.fullScreen();
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
poster property (Windows)
controls property (Windows)

QUESTION 198
You are developing a Windows Store app.

Users must be able to initiate searches by using the Search charm. The app must display the search text in a DIV element named statusMessage.

You need to add code to meet this requirement.

Which code segment should you add?

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A.
```
WinJS.Application.onactivated = function (e) {
  if (e.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {
    var statusDiv = document.getElementById("statusMessage");
    statusDiv.innerText = "Searching with query: " + e.detail.queryText;
  }
};
```

B.
```
WinJS.Application.onactivated = function (e) {
 if (e.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.search) {
  var statusDiv = document.getElementById("statusMessage");
  statusDiv.innerText = "Searching with query: " + e.detail.queryText;
 }
};
```

C.
```
WinJS.Application.addEventListener("search", function (e) {
  if (e.detail.kind === Windows.ApplicationModel.Activation.ActivationKind.launch) {
    var statusDiv = document.getElementById("statusMessage");
    statusDiv.innerText = "Searching with query: " + e.detail.queryText;
  }
});
```

D.
```
WinJS.Application.onsearch = function (e) {
  var statusDiv = document.getElementById("statusMessage");
  statusDiv.innerText = "Searching with query: " + e.detail.queryText;
};
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B
Section: (none)
Explanation

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Explanation/Reference:
onactivated event (Windows)
ActivationKind enumeration (Windows)
getElementById method (Windows)

QUESTION 199
You are developing a Windows Store app.

You need to ensure that the app logs pages that are viewed by the user.

Which navigation member should you use?

A. onnavigated
B. canGoForward
C. canGoBack
D. onbeforenavigate

Correct Answer: A
Section: (none)
Explanation

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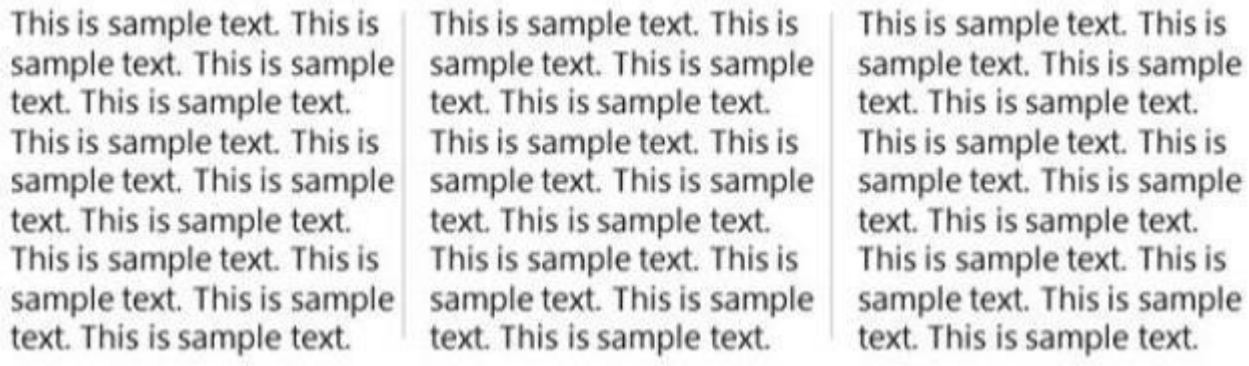
Explanation/Reference:
Navigation.onnavigated event (Windows)

QUESTION 200
You are developing a Windows Store app. The app will format a paragraph of text to resemble the following image.



The app must format the paragraph to meet the following requirements:

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The paragraph must be divided among three columns. Columns must be separated by vertical lines that are one pixel wide.

You need to ensure that the format of the paragraph meets the requirements.

Which code segment should you add?

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A.
```
p {
  column-width: auto 3;
  column-gap: 2em;
  column-rule: 1px solid #808080;
  padding: 2em;
}
```

B.
```
p {
  column-width: auto 3;
  column-gap: 2em;
  column-rule: 1em solid #808080;
  padding: 1px;
}
```

C.
```
p {
  columns: auto 3;
  column-gap: 2em;
  column-rule: 1px solid #808080;
  padding: 2em;
}
```

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D.
```
p {
  columns: auto 3;
  column-gap: 2em;
  column-rule: 1em solid #808080;
  padding: 2em;
}
```

A. Option A

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B. Option B
C. Option C
D. Option D

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 201
You are developing a Windows Store text editor app by using HTML5 and JavaScript.

Users must be able to select text within the app and then cut the text.
You need to enable the Cut feature.

Which code segments should you use? (Each correct answer presents part of the solution.
Choose all that apply.)

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A.
```
var menu = new Windows.UI.Popups.PopupMenu();
menu.commands.append(new Windows.UI.Popups.UICommand("Cut", null, 1));
```

B.
```
function handleKeyPressUp(e) {
  var KeyID = e.keyCode;
  ...
}
document.oninput = handleKeyPressUp;
```

C.
```
var menu = new Windows.Graphics.UI.Popups();
  menu.commands.append(new Windows.UI.Popups.UICommand("Cut", null, 1));
```

D.
```
var menu = new Windows.UI.Popups();
  menu.commands.append(new Windows.UI.Popups.UICommand("Cut", null, 1));
```

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E.
```
function handleKeyPressUp(e) {
  var KeyID = e.keyCode;
  ...
}
document.onkeyup = handleKeyPressUp;
```

F.
```
functionhandleKeyPressUp(e) {
  varKeyID = e.keyCode;
  ...
}
document.onkeyclick = handleKeyPressUp;
```

A. Option A
B. Option B

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C. Option C
D. Option D

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
UICommand.UICommand constructors (Windows)

QUESTION 202
You are developing a Windows Store app. The app has an app bar that is defined as shown in the following code segment.

```
<div data-win-control="WinJS.UI.AppBar"
  data-win-options="{layout:'custom'}">
  ...
</div>
```

You need to style the app bar to match the style of the app.

Which CSS class should you use?

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A. win-commandlayout
B. win-surface
C. win-appbar
D. win-listview
E. win-viewport

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
WinJS.UI.AppBar object (Windows)

QUESTION 203
You develop a Windows Store app. The app is a memory game that displays a 6x6 grid of squares.

When the user taps or swipes a square, the square must flip over to display an image. When testing the app, you find that swiping the tile does not cause it to flip over. You need to ensure that the game responds correctly to user input.

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Which event should you listen for?

A. pointerover
B. pointerenter
C. pointercancel
D. pointerleave

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
pointerenter | onpointerenter event (Windows)

QUESTION 204
You have an enterprise app that has been distributed outside of the Windows Store. The app deployment includes devices that are joined to an enterprise domain and devices that are not.

Installation of the app and all updates are required for all domain-joined devices.

You need to push a critical update to the app.

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What should you do?

A. Require a mandatory update in the versioning model.
B. Distribute the update by using group policy.
C. Distribute the update by deploying a resource pack.
D. Deploy an .appxupload file.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
App packages and deployment (Windows Runtime apps) (Windows)

QUESTION 205
You are developing a Windows Store enterprise app.

The app must retrieve data from other apps asynchronously across domains by using the XMLHttpRequest object.

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You need to retrieve the data.

What should you use?

A. winJS.xhr
B. getResponseStream()
C. HttpWebRequest
D. HTTPClient

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
C# and the Web: Writing a Web Client Application with Managed Code in the Microsoft .NET Framework

QUESTION 206
You are developing a Windows Store app.

The app must provide single sign-on (SSO) to a Microsoft account and to social networks. The SSO feature must be accessible from any device.

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You need to implement SSO.

Which authentication strategy should you use?

A. Account settings
B. Certificate authentication
C. Credential Picker
D. Credential Locker

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Authentication and User Identity (HTML) (Windows)

QUESTION 207
You are developing a Windows Store app.

The app has the following requirements:

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Access resources from the URI ws://contoso.com/MyWebApplication.ashx.
Send and receive binary data.
Use real-time notifications and updates in the browser. Use a bidirectional, full-duplex communication channel with services.

You need to ensure that the app meets the requirements.

Which type of object should you create?

A. Worker
B. WebSocket
C. MessageChannel
D. XmlHttpRequest
E. WebService

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Chapter 11 - Improving Remoting Performance

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QUESTION 208
You are developing a Windows Store app that includes an app bar. You are creating custom styles for the command buttons on the app bar.

You need to ensure that the custom styles include all elements of the command buttons.

Which CSS class should you use?

A. win-command
B. win-commandicon
C. win-commandring
D. win-button

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
WinJS.UI.AppBarCommand object (Windows)

QUESTION 209

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You are developing a Windows Store app that will exchange data with other Windows Store apps.

A JavaScript object named sourceEventObject is created when the share request is received. The sourceEventObject object contains the details of the share contract.

The following requirements must be met:
Declare a share target contract.
Receive file sharing requests from other windows Store apps.

You need to ensure that the requirements are met.

Which code segment should you use?

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A.
```
if (sourceEventObject.detail.kind ===
 Windows.ApplicationModel.Activation.ActivationKind.launch) {
  var shareOperation = sourceEventObject.detail.shareOperation;
  if (shareOperation.data.contains(
   Windows.ApplicationModel.DataTransfer.StandardDataFormats.storageitems)) {
  ...
  }
}
```

B.
```
var shareOperation = sourceEventObject.detail.shareOperation;
if (shareOperation.data.contains(
   Windows.ApplicationModel.DataTransfer.StandardDataFormats.storageitems)){
  ...
}
```

C.
```
if (sourceEventObject.detail.kind ===
 Windows.ApplicationModel.Activation.ActivationKind.file) {
  var shareOperation = sourceEventObject.detail.shareOperation;
  if (shareOperation.data.contains(
   Windows.ApplicationModel.DataTransfer.StandardDataFormats.storageitems)) {
  ...
  }
}
```

D.
```
if (sourceEventObject.detail.kind ===
 Windows.ApplicationModel.Activation.ActivationKind.shareTarget) {
  var shareOperation = sourceEventObject.detail.shareOperation;
  if (shareOperation.data.contains(
   Windows.ApplicationModel.DataTransfer.StandardDataFormats.storageitems)) {
  ...
  }
}
```

A. Option A

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B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Windows.ApplicationModel.Activation namespace (Windows)

QUESTION 210
You are developing a Windows Store app.

The app must implement only the minimum requirements of the Search contract.

You need to define the Search contract.
Which three actions should you perform? Each correct answer presents part of the solution.

A. Add filters to the Search Results page.
B. Add search suggestions.
C. Declare the Search contract in the app manifest.
D. Respond to a search query while the app is the main app on the screen.
E. Create a basic Search Results page for the app.

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Correct Answer: ABD
Section: (none)
Explanation

Explanation/Reference:
Guidelines for search (Windows)

QUESTION 211
You develop a Windows Store app that displays information for a multi-day conference. You use a ListView control to display the list of available sessions.

Users must be able to group sessions by track, by speaker, or by day.

You need to ensure that users can select sessions and add sessions to their calendars.

Which contract or extension should you use?

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A. Contact Picker
B. Calendar Picker
C. Appointment Manager
D. Contact Manager

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
AppointmentManager class (Windows)

QUESTION 212
You develop a Windows Store app that displays a map.

Users must be able to use pinch and stretch gestures to zoom in on and out from the map.

You need to implement touch input for the app by using the least amount of code.

What should you implement?

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A. Pointers
B. Static gestures
C. Custom gestures
D. Manipulation gestures

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Gestures, manipulations, and interactions (HTML) (Windows)

QUESTION 213
You develop a Windows Store app. The app is a memory game that displays a 6x6 grid of squares.

When the user taps or swipes a square, the square must flip over to display an image. When testing the app, you find that swiping the tile does not cause it to flip over.

You need to ensure that the game responds correctly to user input.

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Which event should you listen for?

A. MSGestureChange
B. pointerup
C. pointermove
D. pointerout

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
MSGestureEvent object (Windows)

QUESTION 214
You are developing a Windows Store app. A page in the app contains the following HTML code:

```
<div id="Grid">
  <div id="Top">Top</div>
  <div id="Bottom">Bottom</div>
</div>
```

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The app must style a container element and two child elements to resemble the following image.

The grid layout must meet the following requirements:
The Top section must be half the width of the Bottom section. The solution must retain the proportions of the child sections in the event that the dimensions of any of the grid sections change.

You need to ensure that the proportions of the sections of the image are retained.

Which CSS segment should you add to your style sheet?

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A.
```
#Grid {
  width: 300px;
  height: 200px;
}
#Top {
  height: 100px;
  width: 200px;
  float: top;
  background-color: #777;
}
#Bottom {
  height: 200px;
  width: 200px;
  float: bottom;
  background-color: #444;
}
```

B.
```
#Grid {
  width: 300px;
  height: 200px;
}
#Top {
  background-color: #777;
}
#Bottom {
  background-color: #444;
}
```

C.
```
#Grid {
  display: -ms-grid;
  -ms-grid-columns: 1fr;
  -ms-grid-rows: 1fr 2fr;
  width: 300px;
  height: 200px;
}

#Top {
  -ms-grid-column: 1;
  -ms-grid-row: 1;
  background-color: #777;
}

#Bottom {
  -ms-grid-column: inherit;
  -ms-grid-row: inherit;
  background-color: #444;
}
```

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D.
```
#Grid {
  display: -ms-grid;
  -ms-grid-columns:  1fr;
  -ms-grid-rows:  1fr 2fr;
  width: 300px;
  height: 200px;
}
#Top {
  -ms-grid-column: 1;
  -ms-grid-row: 1;
  background-color: #777;
}

#Bottom {
  -ms-grid-column: 1;
  -ms-grid-row: 2;
  background-color: #444;
}
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Grid Layout (Windows)

QUESTION 215
You are developing a newsreader app that provides users with daily aggregated articles from popular news sites.

You must allow users to share the URI of the articles.

The app must allow at least one of the following ways to share the URI:
With another Windows Store app
With the user's default web browser

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You need to implement the sharing functionality.

Which property of the StandardDataFormats class should you use?

A. ContentSourceApplicationLink
B. Rtf
C. WebLink
D. ContentSourceWebLink

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

C
WebLink is a property of the StandardDataFormats class.
StandardDataFormats class (Windows)

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QUESTION 216
You are developing a customer web form that includes the following HTML.

<input id="txtValue" type="text" />

A customer must enter a valid age in the text box prior to submitting the form.
You need to add validation to the control.

Which code segment should you use?

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A.
```
function validate() {
  var value = $("#txtValue").text();
  var regex = /^[\d\,\.]*$/;
  if (!regex.test(value) || name == "")
    alert("please enter valid value");
  return;
}
```

B.
```
function validate() {
  var name = $("#txtValue").val();
    if (name == null || name == "")
      alert("please enter valid value");
      return;
}
```

C.
```
function validate() {
  var name = $("#txtValue").text();
    if (name == null || name == "")
      alert("please enter valid value");
      return;
 }
```

D.
```
function validate() {
  var value = $("#txtValue").val();
  var regex = /^[\d\,\.]*$/;
  if (!regex.test(value) || value == "")
    alert("please enter valid value");
  return;
}
return emailPattern.test(userinput);
}
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 217
You are creating a class named Consultant that must inherit from the Employee class. The Consultant class must modify the inherited PayEmployee method. The Employee class is defined as follows.

```
function Employee() {}
Employee.prototype.PayEmployee = function ( ){
alertt'Hi there!');
}
```

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Future instances of Consultant must be created with the overridden method.

You need to write the code to implement the Consultant class.

Which code segments should you use? (Each correct answer presents part of the solution.
Choose two.)

A.
```
Consultant.PayEmployee = function ()
{
alert('Pay Consulant');
}
```
B.
```
Consultant.prototype.PayEmployee = function ()
{
alert('Pay Consultant');
}
```
C.
```
function Consultant () {
Employee.call(this);
}
Consultant.prototype = new Employee();
Consultant.prototype.constructor = Consultant;
```

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D. function Consultant() {
Employee.call(this); }
Consultant.prototype.constructor = Consultant.create;

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 218
You are modifying an existing web page. The page is being optimized for accessibility. The current page contains the following HTML.

```
<ul>
  <li><a href="">Home</a></li>
  <li><a href="">Sales</a></li>
  <li><a href="">Operations</a></li>
</ul>
```

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Standards-compliant screen readers must be able to identify the links contained within the navigation structure automatically.

You need to create the navigation link structure in the page.

With which container tags should you wrap the existing markup?

A. <navmap> </navmap>
B.
C. <nav> </nav>
D. <map> </map>

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/tags/tag_nav.asp

QUESTION 219

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You are creating a JavaScript object that represents a customer.

You need to extend the Customer object by adding the GetCommission() method.

You need to ensure that all future instances of the Customer object implement the GetCommission() method.

Which code segment should you use?

A.
```
Customer.apply.GetCommission() = function()
{
  alert('payroll');
}
```

B.
```
Customer.prototype.GetCommission() = function Customer.GetCommission() ()
{
  alert('payroll');
}
```

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C.
```
Customer.GetCommission() = function (){
  alert('payroll');
}
```

D.
```
Customer.prototype.GetCommission() = function ()
{
  alert('payroll');
}
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)

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Explanation

Explanation/Reference:

QUESTION 220
You are developing a web form that includes the following code.

```
<div id="dynamicForm">
  <input type="checkbox" id="myCheckbox" onclick="ShowInputBox('dynamicForm');" >
</div>
```

When a user selects the check box, an input text box must be added to the page dynamically.

You need to ensure that the text box is added.

Which function should you use?

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A.
```
function ShowInputBox(divName)
{
  var newInputDiv = document.createElement('div');
  newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
  document.getElementById(newInputDiv).appendChild(divName);
}
```

B.
```
function ShowInputBox(divName)
{
  var newInputDiv = document.createElement('div');
  newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
  document.getElementById(divName).appendChild(newInputDiv);
}
```

C.
```
function ShowInputBox(divName)
{
  var newInputDiv = document.createElement('div');
  newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
  document.getElementById(divName).applyElement (newInputDiv);
}
```

D.
```
function ShowInputBox(divName)
{
  var newInputDiv = document.createElement('div');
  newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
  document.getElementById(newInputDiv).applyElement (divName);
}
```

A. Option A
B. Option B
C. Option C

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D. Option D

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 221
You are developing an HTML5 page that has an element with an ID of logo. The page includes the following HTML.

```
<div>
Logo:<br>
<div id="logo">
</div>
</div>
```

You need to move the logo element lower on the page by five pixels.

Which lines of code should you use? (Each correct answer presents part of the solution. Choose two.)

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A. document.getElementById("logo") .style.position = "relative";
B. document.getElementById("logo").Style.top = "5px";
C. document.getElementById("logo").style.top = "-5px";
D. document.getElementById("logo").style.position = "absolute";

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/cssref/pr_class_position.asp http://www.w3schools.com/cssref/pr_pos_top.asp

QUESTION 222
You are developing a web page by using HTML5 and C5S3. The page includes a tag with the ID set to validate.

When the page is rendered, the contents of the tag appear on a line separate from the content above and below it. The rendered page resembles the following graphic.

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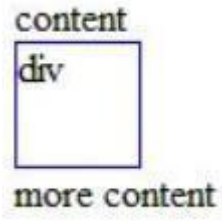
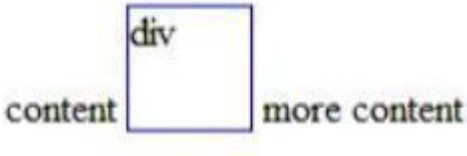


The page must be rendered so that the tag is not forced to be separate from the other content. The following graphic shows the correctly rendered output.



You need to ensure that the page is rendered to meet the requirement.

Which line of code should you use?

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A. document.getElementById("validate").style.display = "inline";
B. document.getElementById("validate").style.margin = "0";
C. document.getElementById("validate").style.padding = "0";
D. document.getElementSyId("validate").style.display = "block";

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/cssref/pr_class_display.asp

QUESTION 223
Your company uses a third-party component that generates HTML for a website. The third-party component creates DIV elements that display a yellow background.

The third-party component uses inline styles in the DIV elements that are inconsistent with your corporate standards. You must override the DIV elements in the style sheet with the corporate styles.

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You need to ensure that the website meets corporate standards.

Which style should you use?

A.
```
#alldiv
{
  background: yellow;
  font: 12px/22px Arial;
}
```

B.
```
div p:only-child
{
  background: yellow;
  font: 12px/22px Arial;
}
```

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C.
```
div
{
  background: yellow !important;
  font: 12px/22px Arial !important;
}
```

D.
```
div
{
  background: yellow;
  font: 12px/22px Arial;
}
```

A. Option A
B. Option B
C. Option C
D. Option D

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Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 224
You develop an HTML5 webpage that contains the following HTML markup:

```
<label for='favoriteColor'>Favorite Color(2-10 characters):</label>
<input type='text' id='favoriteColor' />
<input type='button' value='Submit'
 onclick="testLength(document.getElementById('favoriteColor'), 2, 10)" />
```

Users must receive a message after they click the Submit button if the text entered into the favoriteColor text box is fewer than 2 characters or greater than 10 characters.

You need to implement the testLength() function.

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Which code segment should you use?

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 225
You are developing a website that helps users locate theaters in their area from a browser. You created a function named findTheaters ().

The function must:
Get the current latitude and longitude of the user's device Pass the user's location to findTheaters()

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The user needs to access the geolocation information from the browser before searching for theaters.

Which code segment should you use?

A.
```
function GetTheaters {
  theaters = findTheaters(navigator.geolocation.getCurrentPosition());
  ...
}
```

B.
```
navigator.geolocation.getBrowserPosition(hasPosition);

function hasPosition(position) {
  theaters = findTheaters(position.coords.latitude, position.coords.longitude);
  ...
}
```

C.
```
navigator.geolocation.getCurrentPosition(hasPosition, noPosition);

function hasPosition(position) {
  theaters=findTheaters(position.coords.latitude, position.coords.longitude);
  ...
}

function noPosition() {
  ...
}
```

D.
```
function GetTheaters {
  theaters = findTheaters(navigator.geolocation.getLatitude(), navigator.geolocation.getLongitude()
  ...
}
```

A. Option A
B. Option B

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C. Option C
D. Option D

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 226
You are developing an HTML5 web application. The application loads data from a web service by using AJAX. The application displays the data by calling the displayData function. The data is loaded by using the following code.

```
var ajax = $.ajax({
  url: dataUri,
});
```

You need to ensure that the data is displayed when it is successfully retrieved from the web service.

Which code segment should you use?

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A.
```
displayData(ajax.data);
```

B.
```
ajax.done = function (data) {
  displayData(dataOperation);
};
```

C.
```
ajax.always = function (data) {
  displayData(dataOperation);
};
```

D.
```
displayData(ajax.val());
```

A. Option A
B. Option B
C. Option C

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D. Option D

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 227
You are developing a web page that performs CPU-intensive calculations. A web worker processes these calculations on a separate background thread. The process is instantiated from the web page.
You need to stop the web worker process after the calculations are completed.

Which two actions can you perform to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

A. From the web page, call the close() method.
B. From the web worker process, call the terminate() method.
C. From the web page, call the terminate() method.
D. From the web worker process, call the close() method.

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Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 228
You are developing an HTML5 page named main.html. The JavaScript code for the main page is located in a file named myApp.js.

You need to create a web worker and instantiate it from main.html.

Where should you place the web worker code?

A. In the myApp.js file
B. In the main.html file
C. In a separate .js (JavaScript) file
D. In a separate executable file

Correct Answer: C

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Section: (none)
Explanation

Explanation/Reference:

QUESTION 229
You are modifying a website. The body of the page will be divided into two sections:
A content section will contain blog posts and comments. An area on the right-hand side will contain advertisements.
The page is defined by the following HTML.

```
<table width="100%" border="1">
 <tr>
  <td class="header" colspan="2">
   Welcome to My Blog!
  </td>
 </tr>
 <tr>
  <td width="70%">
   ...
  </td>
  <td width="30%">
   ...
  </td>
 </tr>
 <tr>
  <td class="footer" colspan="2">
   ...
  </td>
 </tr>
</table>
```

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The site must conform to HTML5 standards and must use HTML5 semantic tags.

You need to ensure that the advertisements are on the rightmost section of the page.

Which tag should you use?

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A. <aside>
B.
C. <article>
D. <footer>

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 230
You are developing an HTML5 page.

You need to add author and copyright information.
Which tag should you use?

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A. <aside>
B. <header>
C. <footer>
D. <section>

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
definite answer.

QUESTION 231
You are modifying a blog site to improve search engine readability. You need to group relevant page content together to maximize search engine readability.

Which tag should you use?

A. <section>
B. <tbody>
C.

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D. <table>

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
The <section> tag defines sections in a document. Such as chapters, headers, footers, or any other sections of the document.

QUESTION 232
You are developing a customer web form that includes the following HTML.

<input id="txtValue"/>

You need to change the HTML markup so that customers can enter only a valid three-letter country code.

Which HTML should you use?

A. <input id="txtValue" type="country"/>
B. <input id="txtValue" type="text" required="xxx"/>
C. <input id="txtVa!ue" type="text" pattern-" [A-Za-z] {3} "/>
D. <input id="txtValuen type="code" pattern"="country"/>

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Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 233
You are developing an HTML5 web application and are styling text.

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

A. Capitalize
B. Hidden
C. Italic
D. Line-through

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Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/cssref/pr_text_text-transform.asp none,capitalize,uppercase,lowercase and inherit
Example
Transform text in different elements:
h1 {text-transform:uppercase;}
h2 {text-transform:capitalize;}
p {text-transform:lowercase;}

QUESTION 234
You are developing an HTML5 web application and are styling text.

You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

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A. Italic
B. Line-through
C. Capitalize
D. 20px

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference:
http://www.w3schools.com/cssref/pr_text_text-transform.asp none,capitalize,uppercase,lowercase and inherit
Example
Transform text in different elements:
h1 {text-transform:uppercase;}
h2 {text-transform:capitalize;}
p {text-transform:lowercase;}

QUESTION 235
You are modifying a blog site to improve search engine readability.

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You need to group relevant page content together to maximize search engine readability.

Which tag should you use?

A. <tbody>
B. <article>
C.
D.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
The <article> tag specifies independent, self-contained content.

An article should make sense on its own and it should be possible to distribute it independently from the rest of the site.

Potential sources for the <article> element:

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Forum post
Blog post
News story
Comment

QUESTION 236
You develop an HTML5 webpage. You have the following HTML markup: (Line numbers are for reference only.)

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```
01 <table>
02   <tr>
03     <th>Fruit</th>
04     <th>Quantity</th>
05     <th>Price</th>
06   </tr>
07   <tr>
08     <td>Apples</td>
09     <td>48</td>
10     <td>$0.29</td>
11   </tr>
12   <tr>
13     <td>Bananas</td>
14     <td>72</td>
15     <td>$0.19</td>
16   </tr>
17   <tr>
18     <td>Watermelon</td>
19     <td>14</td>
20     <td>$3.99</td>
21   </tr>
22 </table>
```

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The webpage also contains the following CSS markup:

```
table { border: 1px solid black; font-family: Arial; }
tr:nth-child(odd) { background-color: red; }
tr td:nth-of-type(even) {background-color: blue; }
```

You need to determine how the webpage will appear when the CSS styles are applied.

Select two.

A. The first row of the table will have a red background.
B. The second row of the table will have a red background.

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C. The second cell in the first row of the table will have a blue background.
D. The second cell in the third row of the table will have a blue background.
E. The second cell in the third row of the table will have not have blue background.

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

Fruit	Quantity	Price
Apples	48	$0.29
Bananas	72	$0.19
Watermelon	14	$3.99

QUESTION 237
You develop a webpage.

The webpage must display a grid that contains one row and five columns. Columns one, three, and five are the same width. Columns two and four are the same width, but much wider than columns one, three, and five. The grid resembles the following image:

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The grid must meet the following requirements:
Each row must be tall enough to ensure that images are not cut off.
Each row must contain five columns.
The width of the columns must not change when the screen is resized or rotated.

You need to define the style for the grid. Which CSS3 style should you use?

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A.
```
<style type="text/css">
  #grid {
    display: -ms-grid;
    -ms-grid-columns: 2fr (3fr 2fr)[2];
    -ms-grid-rows: auto;
  }
</style>
```

B.
```
<style type="text/css">
  #grid {
    display: -ms-grid;
    -ms-grid-columns: 100px (250px 100px)[2];
    -ms-grid-rows: min-content;
  }
</style>
```

C.
```
<style type="text/css">
  #grid {
    display: -ms-grid;
    -ms-grid-columns: 100px 250px 100px 250px 100px;
    -ms-grid-rows: auto;
  }
</style>
```

D.
```
<style type="text/css">
  #grid {
    display: -ms-grid;
    -ms-grid-columns: 100px 250px 100px 250px 100px;
    -ms-grid-rows: min-content;
  }
</style>
```

A. Option A
B. Option B
C. Option C

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D. Option D

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
* -ms-grid-rows property
auto

The height of a row is computed based on the tallest child element in that column.

Incorrect:
Not A: The width of the columns must not change when the screen is resized or rotated.
Not B, Not D: -ms-grid-rows property
min-content

The minimum height of any child elements is used as the height of the row.

Note:
* width

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The width of each column specified as one of the following values:

A length consisting of an integer number, followed by an absolute units designator ("cm", "mm", "in", "pt", or "pc") or a relative units designator ("em", "ex", or "px").
A percentage of the object width.
A proportion of the remaining horizontal space (that is, the object width, less the combined widths of other tracks), consisting of an integer number followed by a fractional designator ("fr"). For example, if "200px 1fr 2fr" is specified, the first column is allocated 200 pixels, and the second and third columns are allocated 1/3 and 2/3 of the remaining width, respectively.

QUESTION 238
You need to ensure that employees are authenticated across public networks according to the requirements.

Which code segment should you insert at line GC04?

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A.
```
option.authenticationProtocol =
 Windows.Security.Credentials.UI.AuthenticationProtocol.negotiate;
```

B.
```
option.authenticationProtocol =
 Windows.Security.Credentials.UI.AuthenticationProtocol.basic;
```

C.
```
option.authenticationProtocol =
 Windows.Security.Credentials.UI.AuthenticationProtocol.digest;
```

D.
```
option.authenticationProtocol =
 Windows.Security.Credentials.UI.AuthenticationProtocol.custom;
```

A. Option A
B. Option B
C. Option C
D. Option D

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Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Incorrect:
B, C, D - Credentials are returned to the caller as plaintext.

A - Credentials are transformed before being returned to the caller.

AuthenticationProtocol enumeration (Windows)

QUESTION 239
You need to implement the requirements for sending news items to multiple contacts.

Which code segment should you use to replace the code in line EJ04?

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A.
```
var toEmail = "";
picker.pickSingleContactsAsync().then(function (contact) {
  contact.emails.forEach(function (email) {
    toEmail = toEmail.concat(email.value, ";");
  });
});
document.querySelector("#To").innerText = toEmail;
```

B.
```
var toEmail = "";
picker.pickMultipleContactsAsync().then(function (contact) {
  contact.emails.forEach(function (email) {
    toEmail = toEmail.concat(email.value, ";");
  });
});
document.querySelector("#To").innerText = toEmail;
```

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C.
```
var toEmail = "";
picker.pickSingleContactsAsync().then(function (contacts) {
  contacts.forEach(function (contact) {
    toEmail = toEmail.concat(contact.emails[0].value, ";");
  });
});
document.querySelector("#To").innerText = toEmail;
```

D.
```
var toEmail = "";
picker.pickMultipleContactsAsync().then(function (contacts) {
  contacts.forEach(function (contact) {
    toEmail = toEmail.concat(contact.emails[0].value, ";");
  });
});
document.querySelector("#To").innerText = toEmail;
```

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A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
ContactPicker.PickMultipleContactsAsync | pickMultipleContactsAsync method (Windows) Contact.Emails | emails property (Windows)

QUESTION 240
You need to ensure that the navigation requirements for displaying news items are met. Which code segment should you insert at line NP04?

A. Windows.Devices.Enumeration
B. Windows. Devices.Input
C. Windows.Media.Devices
D. Windows.UI.Input

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Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Windows.UI.Input namespace (Windows)