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Exam Code: 70-480

Exam Name: Programming in HTML5 with JavaScript and CSS3



Javascript

QUESTION 1

77-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>
```

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.getElementById("picture").style.top = "-5px";
- D. document.getElementById("picture").style.position = "absolute";

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

93-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.fillRect(20, 20, canvas.width - 20, canvas.height - 20);
15  }
```

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: canvas, click = clickReporter;

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

95-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 }
```

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 4

96-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?

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

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

C 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.
- B.
- C.
- D.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

97-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");
    }
}
```

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

```
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?

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

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

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

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

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

115-An HTML page contains no embedded JavaScript or CSS code. The body of the page contains only the following line of code. <p id="test">test</p> 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 to 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";

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

119-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?

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

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

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

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

120-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;">Edit</button>

The button is not displayed by default. The button must be displayed only if the user is logged on. 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: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

126-You are developing an application that analyzes population data for major cities in the United States.

The application retrieves population statistics for a 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.
B.
C.

D.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

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

```
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?

- 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",
```
- D.

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

129-You develop a webpage that allows a user to download a JPEG 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:

QUESTION 12

134-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>
```

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?

- A.

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

- B.
- ```
if (!/[^\w\d]/.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";
```

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 13

140-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.)

```
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:**

### QUESTION 14

141-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.)

- 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() + ',';
});
```
- D. 

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

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

- A.
- B.
- C.
- D.
- E.

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 15**

146-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.

```
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?

- A. `var stock = this;  
 $.get('data.xml', function (data) {  
 stock.parseStock(data);  
 });`
- B. `$.get('data.xml', function (data, innerScope) {  
 innerScope.parseStock(data);  
});`
- C. `$.get('data.xml', function (data) {  
 this.parseStock(data);  
});`
- D. `$.get('data.xml', function (data) {  
 (function (scope) {  
 scope.parseStock(data);  
 })(data);  
});`

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

**Correct Answer:** A

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 16**

151-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

**Correct Answer:** BC

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 17**

152-You develop an interactive scalable vector graphic (SVG) application. You write the following code (Line numbers are included for reference only.):

```
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?

- C A. `function zoomIn() {  
 var myGraphic = document.getElementById("myGraphic");  
 myGraphic.createSVGTransform(1.5);  
}`
- C B. `function zoomIn() {  
 var myGraphic = document.getElementById("myGraphic");  
 myGraphic.setAttribute("currentScale", 1.5);  
}`
- C C. `function zoomIn() {  
 var myCircle = document.getElementById("myCircle");  
 myCircle.setAttribute("currentScale", 1.5);  
}`
- C D. `function zoomIn() {  
 var myCircle = document.getElementById("myCircle");  
 myCircle.r = myCircle.r * 1.5;  
}`

- A.  
B.  
C.  
D.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 18

153-You develop an HTML5 webpage. You have the following HTML markup:

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

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

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 19

154-You develop an HTML application that is located at [www.adventure-works.com](http://www.adventure-works.com). The application must load JSON data from [www.fabrikam.com](http://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.
- 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:**

### QUESTION 20

157-You develop an HTML5 webpage. You have the following HTML markup:

```
<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 21**

158-You are creating a custom object as described by the following code.

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

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;
}
```

A.

B.

C.

D.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

161-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. 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);
 }
};
```
- 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);
 }
};
```

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

162-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.

Which two code segments should you include on the webpage?

(Each correct answer presents a complete solution. Choose two.)

- A. 

```
function validateForm() {
 var loanTermInput = document.getElementById("loanTermTextBox");
 var loanTerm = parseInt(loanTermInput.value, 10);
 if (isNaN(loanTerm) || loanTerm.toString() !== loanTermInput.value)
 alert("Loan Term must be an integer");
 return false;
}
return true;
};
```
  
- B. 

```
var validateForm = function () {
 var loanTermInput = document.getElementById("loanTermTextBox");
 var loanTerm = parseInt(loanTermInput.value, 10);
 if (isNaN(loanTerm) || loanTerm.toString() !== loanTermInput.value)
 alert("Loan Term must be an integer");
 return false;
}
return true;
};
```
  
- C. 

```
var validateForm = function () {
 var loanTermInput = document.getElementsByName("loanTermTextBox");
 var loanTerm = parseFloat(loanTermInput.value);
 if (!isNaN(loanTerm) || loanTerm.toString() !== loanTermInput.value)
 alert("Loan Term must be an integer");
 return false;
}
return true;
};
```
  
- D. 

```
var validateForm = function () {
 var loanTermInput = document.getElementById("loanTermTextBox");
 var loanTerm = parseInt(loanTermInput.text);
 if (isNaN(loanTermInput))
 alert("Loan Term must be an integer");
 return false;
}
```
  
- E. 

```
var validateForm = function () {
 var loanTermInput = document.getElementsByName("loanTermTextBox");
 var loanTerm = JSON.parse(loanTermInput);
 if (!isNaN(loanTerm) || loanTerm.toString() !== loanTermInput.value)
 alert("Loan Term must be an integer");
 return false;
}
```

- A.
- B.
- C.
- D.
- E.

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

166-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 () {  
 ...  
}`

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

167-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?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

168-You develop an HTML5 webpage. You have the following HTML markup:

```
Total Products:

Total Boxes:

<input type="button" id="addOneItem" value="Add one item to the order" />
<input type="button" id="addBoxOfItems" value="Add a box to the order" />
```

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.
- B.
- C.
- D.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 27**

2-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?

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

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

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

C 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);  
}`

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

6-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 }
}
```

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:**

### QUESTION 29

7-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);

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 30

11-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");
 });
});
```

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?

- C A. `function Loader() {  
 this.status = "ready";  
 this.temp = 50;  
 this.updateStatus = function (newStatus) {  
 this.status = newStatus;  
 };  
}`
- C B. `function Loader() {  
 this.prototype.status = "ready";  
 this.temp = 50;  
 this.updateStatus = function (newStatus) {  
 this.status = newStatus;  
 };  
}`
- C C. `function Loader() {  
 status = "ready";  
 this.temp = 50;  
 this.updateStatus = function (newStatus) {  
 status = newStatus;  
 };  
}`
- C D. `function Loader() {  
 window.status = "ready";  
 this.temp = 50;  
 this.updateStatus = function (newStatus) {  
 status = newStatus;  
 };  
}`

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 31**

12-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 (){
 alert('Hi there!');
}
} 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 Consultant');  
}
- B. Consultant.prototype.PayEmployee = function ()  
{  
 alert('Pay Consultant');  
}
- C. function Consultant ()  
{  
 Employee.call(this);  
}  
Consultant.prototype = new Employee();  
Consultant.prototype.constructor = Consultant;
- D. function Consultant() {  
 Employee.call(this); }  
Consultant.prototype.constructor = Consultant.create;

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 32**

16-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?

- C A. `Customer.apply.GetCommission() = function()`  
`{`  
 `alert('payroll');`  
`}`
  
- C B. `Customer.prototype.GetCommission() = function Customer.GetCommission()`  
`{`  
 `alert('payroll');`  
`}`
  
- C C. `Customer.GetCommission() = function (){`  
 `alert('payroll');`  
`}`
  
- C D. `Customer.prototype.GetCommission() = function ()`  
`{`  
 `alert('payroll');`  
`}`

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 33

17-You are developing a web form that includes the following code.

```
<div id="dynamicForm">
 <input type="checkbox" id="myCheckbox" onclick="ShowInputBox('dynamicF
</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?

- C A. `function ShowInputBox(divName)`  
{  
    `var newInputDiv = document.createElement('div');`  
    `newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";`  
    `document.getElementById(divName).appendChild(newInputDiv);`  
}
- C B. `function ShowInputBox(divName)`  
{  
    `var newInputDiv = document.createElement('div');`  
    `newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";`  
    `document.getElementById(divName).appendChild(newInputDiv);`  
}
- C C. `function ShowInputBox(divName)`  
{  
    `var newInputDiv = document.createElement('div');`  
    `newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";`  
    `document.getElementById(divName).applyElement (newInputDiv);`  
}
- C D. `function ShowInputBox(divName)`  
{  
    `var newInputDiv = document.createElement('div');`  
    `newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";`  
    `document.getElementById(newInputDiv).applyElement (divName);`  
}

- A.  
B.  
C.  
D.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 34**

19-You are developing an HTML5 page that has an element with an ID of logo. The page includes the following HTML.

```
<div>
Logo:

 <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.)

- 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**

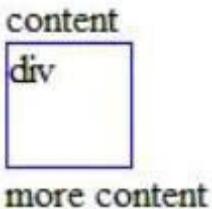
**Explanation/Reference:**

### QUESTION 35

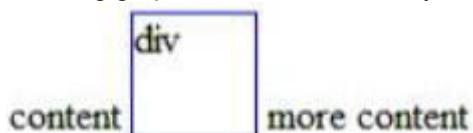
20-You are developing a web page by using HTML5 and C5S3. The page includes a <div> tag with the ID set to validate.

When the page is rendered, the contents of the <div> tag appear on a line separate from the content above and below it.

The rendered page resembles the following graphic.



The page must be rendered so that the `<div>` 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?

- A. document.getElementById("validate").style.display = "inline";
- B. document.getElementById("validate").style.margin = "0";
- C. document.getElementById("validate").style.padding = "0";
- D. document.getElementById("validate").style.display = "block";

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 36

22-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.  
B.  
C.  
D.

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 37**

24-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")

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 38**

25-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?

- A. 

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

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

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

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

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 39

27-You are developing a web application that consumes services from a third-party application. A web worker processes the third-party application requests in the background. A page in the application instantiates the web worker process. You need to establish two-way communications between the web worker process and the page. Which two actions will achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. From the web worker, use the `onconnect` event handler of the main page to capture events.
- B. From the main page, use the `onmessage` event handler of the web worker to capture events.
- C. From the web worker, use the `onmessage` event handler of the main page to capture events.
- D. From the main page, use the `onconnect` event handler of the web worker to capture events.

**Correct Answer:** BC

**Section:** (none)

## Explanation

### Explanation/Reference:

#### QUESTION 40

28-You are developing an HTML5 web application that displays customer mailing address information.

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

The following code defines a Customer object and loads address data.

```
function Customer(firstName, lastName) {
 this.firstName = firstName;
 this.lastName = lastName;
 this.address = "";
}

Customer.prototype.parseAddress = function (data) {
 this.address = data.address;
}

Customer.prototype.loadAddress = function () {
}
```

You need to implement the loadAddress function. Which code segment should you use?

- A. `$.get('data.xml', function (data) {  
 (function (scope) {  
 scope.parseAddress(data);  
 })(data);  
});`
- B. `$.get('data.xml', function (data, innerScope) {  
 innerScope.parseAddress(data);  
});`
- C. `var that = this;  
$.get('data.xml', function (data) {  
 that.parseAddress(data);  
});`
- D. `$.get('data.xml', function (data) {  
 this.parseAddress(data);  
});`

A.

B.

C.

D.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 41**

32-You are creating a web form that users will use to enter their personal information. The form includes the following HTML.

```
<body>
 <table>
 <tr>
 <td>Item</td>
 <td>Input</td>
 <td>Current</td>
 </tr>
 <tr>
 <td>First Name</td>
 <td>
 <input type="text" />
 </td>
 <td></td>
 </tr>
 <tr>
 <td>Last Name</td>
 <td>
 <input type="text" />
 </td>
 <td></td>
 </tr>
 </table>
</body>
```

You have the following requirements:

- When a user enters an input box, the cell on the right must turn green.
- When a user leaves an input box, the cell on the right must turn white.

You need to create the web form to meet these requirements.

Which code segment should you use?

C A. `$(document).ready(function () {  
 $('table td: nth-child(2) input').focus(  
 function () {  
 $(this).parent().next().css  
 ("background-color", "#00FF00");  
 });  
 $('table td: nth-child(2) input').blur(  
 function () {  
 $(this).parent().next().css  
 ("background-color", "#FFFFFF");  
 });  
});`

C B. `$(document).ready(function () {  
 $('table td: eq(2) input').focus(  
 function () {  
 $(this).parent().parent().next().css  
 ("background-color", "#00FF00");  
 });  
 $('table td: eq(2) input').blur(  
 function () {  
 $(this).parent().parent().next().css  
 ("background-color", "#FFFFFF");  
 });  
});`

C C. `$(document).ready(function () {  
 $('table td:eq(2) input').focus(  
 function () {  
 $(this).parent().next().css  
 ("background-color", "#00FF00");  
 });  
 $('table td: eq(2) input').blur(  
 function () {  
 $(this).parent().next().css  
 ("background-color", "#FFFFFF");  
 });  
});`

C D. `$(document).ready(function () {  
 $('table td:nth-child(2) input').focus(  
 function () {  
 $(this).parent().parent().next().css  
 ("background-color", "#00FF00");  
 });  
 $('table td:nth-child(2) input').blur(  
 function () {  
 $(this).parent().parent().next().css  
 ("background-color", "#FFFFFF");  
 });  
});`

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 42**

41-You are developing a web page that has a group of H1 and H2 elements. The page also includes a CSS class named underlineMe.

You have the following requirements:

- The font color of all H1 and H2 elements must be changed to red.
- The CSS class underlineMe must be applied to all H1 and H2 elements.

You need to update the web page to meet the requirements.

Which code segment should you use?

- A. `$(":head").addClass('underlineMe');  
$(":head").css({ color: 'red' });`
- B.  `$("h1").css({ color: 'red' });  
$("h1").addClass('underlineMe');`
- C.  `$("h2").css({ color: 'red' });  
$("h2").addClass('underlineMe');`
- D.  `$(":header").css({ color: 'red' });  
$(":header").addClass('underlineMe');`

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 43**

49-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?

- C A. 

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

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

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

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

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 44**

51-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**

**Explanation/Reference:**

**QUESTION 45**

53-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?

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

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

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

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

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 46**

54-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?

C 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);
 }
}
```

C 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 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);
 }
}
```

C 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);
 }
}
```

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

**Correct Answer: D**  
**Section: (none)**

## Explanation

### Explanation/Reference:

#### QUESTION 47

57-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?

- 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.  
B.  
C.  
D.

**Correct Answer:** C

**Section:** (none)

**Explanation**

### Explanation/Reference:

#### QUESTION 48

59-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. 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:**

**QUESTION 49**

62-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.

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 50**

64-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');
}
```

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.)

- 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;
```
- D. 

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

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

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 51**

66-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?

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

A.  
B.  
C.  
D.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## Drop and Drag

### QUESTION 1

72-DRAG DROP 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:

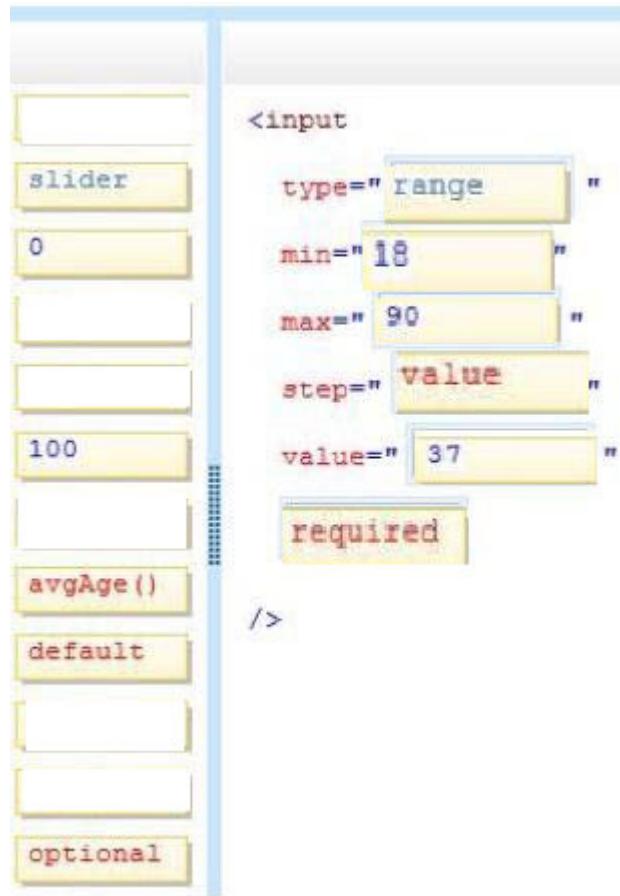
The left pane contains the following items:

- range
- slider
- 0
- 18
- 90
- 100
- 37
- avgAge()
- default
- value
- required
- optional

The right pane displays the generated HTML code:

```
<input type="range" min="18" max="90" step="1" value="37" />
```

### Correct Answer:



**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 2**

73-You are creating a JavaScript object that represents an employee. You need to extend the Employee object by adding the GetPayroll() method. 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");  
}
  - D. Employee.prototype.GetPayroll = function()  
{  
 alert("payroll");  
}
- 
- A. Employee.apply.GetPayroll() = function()  
{  
 alert("payroll");  
}
  - B. Employee.prototype.GetPayroll = function Employee.GetPayroll()  
{  
 alert("payroll");  
}
  - C. Employee.GetPayroll() = function(){  
 alert("payroll");  
}
  - D. Employee.prototype.GetPayroll = function()  
{  
 alert("payroll");  
}

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

75-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:**

#### **QUESTION 4**

86-DRAG DROP 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.

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:**

user agent style sheets

user normal style sheets

author normal style sheets

author important style sheets

user important style sheets

**Correct Answer:**

user agent style sheets

user normal style sheets

author normal style sheets

author important style sheets

user important style sheets

**Section:** (none)

**Explanation**

**Explanation/Reference:**

The order of declarations from least important to most important:

**QUESTION 5**

98-DRAG DROP You develop an HTML5 webpage. You have the following HTML markup:

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

```

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:**

.....	Answer Area
<pre>languages = \$.makeArray(items);</pre>	
<pre>languages.sort (function (s) { return s.innerHTML; });</pre>	
<pre>for (var i = 0, l = items.length; i &lt; l; i++)   items[i].innerHTML = languages[i];</pre>	
<pre>for (var i = 0, l = items.length; i &lt; l; i++)   languages.push(items[i].innerHTML);</pre>	
<pre>var items = document.getElementsByTagName ("li");</pre>	
<pre>items = \$.makeArray(languages);</pre>	
<pre>languages.sort();</pre>	
<pre>\$(languages).appendTo("#languages");</pre>	

**Correct Answer:**

```
languages = $.makeArray(items);

languages.sort
(function (s) { return s.innerHTML; });

items = $.makeArray(languages);

$(languages).appendTo("#languages");
```

### Answer Area

```
var items = document.getElementsByTagName("li");

for (var i = 0, l = items.length; i < l; i++)
 languages.push(items[i].innerHTML);

languages.sort();

for (var i = 0, l = items.length; i < l; i++)
 items[i].innerHTML = languages[i];
```

**Section:** (none)  
**Explanation**

**Explanation/Reference:**

### QUESTION 6

99-DRAG DROP 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:**

Answer Area

```
$("<tr><td>" + key + "</td><td>" + val + "</td></tr>")
 .appendTo('#fruitTable');
```

```
$("#fruitTable tr:last").after(data);
```

```
jsonFruit.push(key, val);
```

```
$("#fruitTable").after(
 "<tr><td>" + key + "</td><td>" + val + "</td></tr>");
```

```
var data = $.parseJSON(jsonFruit);
```

```
$.each(jsonFruit, function (key, val) {
```

```
 data.push(key, val);
```

```
});
```

```
$.getJSON(jsonFruit, function (data) {
```

Correct Answer:

Answer Area

`$.each(jsonFruit, function (key, val)`

`$("#fruitTable tr:last").after(data);`

`jsonFruit.push(key, val);`

`$("#fruitTable").after(  
 "<tr><td>" + key + "</td><td>" + val + "</td></tr>");`

`var data = $.parseJSON(jsonFruit);`

`data.push(key, val);`

`$.getJSON(jsonFruit, function (data) {`

`"<tr><td>" + key + "</td><td>" + val + "</td></tr>")  
 .appendTo('#fruitTable');`

`});`

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 7**

100-DRAG DROP 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:

Select and Place:	Answer Area
img.alt = image.Description; img.src = image.FileName;	
return this.toHTMLImage();	
return this.img;	
this.img = img;	
this.img = new document.images();	
this.img = document.createElement('img');	
var img = document.createElement('img');	
this.img.Description = image.Description; this.img.FileName = image.FileName;	

#### Correct Answer:

Answer Area	
	<pre>var img = document.createElement('img');</pre>
<pre>return this.toHTMLImage();</pre>	
<pre>return this.img;</pre>	
<pre>this.img = new document.images();</pre>	
<pre>this.img = document.createElement('img');</pre>	
<pre>this.img.Description = image.Description;</pre>	
<pre>this.img.FileName = image.FileName;</pre>	

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

102-DRAG DROP 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. 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:**

res.data;  
res;  
res.toString()  
fullname.GivenName  
fullname.toString()  
fullname.GivenName.value  
fullname.Surname  
fullname.toLocaleString()  
fullname.GivenName.value

### Answer Area

```
$ (document).ready(function () {
 $('#submit').click(function () {
 $.ajax({
 type: "POST",
 url: "Default.aspx/GetFullName",
 data: "{}",
 contentType: "application/json",
 dataType: "json",
 success: function (res) {

 var fullname = res;

 $("#GivenName").text(fullname.GivenName);
 $("#Surname").text(fullname.Surname);
 }
 });
 });
});
```

### Correct Answer:

res.data;  
res.toString()  
fullname.toString()  
fullname.GivenName.value  
fullname.toLocaleString()  
fullname.GivenName.value

### Answer Area

```
$ (document).ready(function () {
 $('#submit').click(function () {
 $.ajax({
 type: "POST",
 url: "Default.aspx/GetFullName",
 data: "{}",
 contentType: "application/json",
 dataType: "json",
 success: function (res) {

 var fullname = res;

 $("#GivenName").text(fullname.GivenName);
 $("#Surname").text(fullname.Surname);
 }
 });
 });
});
```

### Section: (none)

## Explanation

### Explanation/Reference:

#### QUESTION 9

103-DRAG DROP 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. 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:

Answer Area

```
function showLoanAmounts() {
 //
 //
 //
 function showSomeLoanAmount() {
 //
 //
 //
 alert(loanAmount);
 }

 function showAnotherLoanAmount() {
 //
 //
 //
 alert(loanAmount);
 }
 showSomeLoanAmount();
 alert(loanAmount);
}
```

showSomeLoanAmount();  
showAnotherLoanAmount();  
var loanAmount = 400;  
var loanAmount = 800;  
var loanAmount = 1000;

### Correct Answer:

showSomeLoanAmount();

### Answer Area

```
function showLoanAmounts() {
 var loanAmount = 400;

 function showSomeLoanAmount() {
 var loanAmount = 800;

 function showAnotherLoanAmount() {
 var loanAmount = 1000;

 alert(loanAmount);
 }

 showAnotherLoanAmount();
 alert(loanAmount);
 }

 showSomeLoanAmount();
 alert(loanAmount);
}
```

Section: (none)

Explanation

Explanation/Reference:

#### QUESTION 10

105-DRAG DROP You are creating a function named getText().

The function must retrieve information from text files that are stored on a web server. You need to develop the function to meet the requirement. Which code segment or segments should you use? (To answer, drag the appropriate command from the list of commands to the correct location or locations 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:

```
req.onreadystatechange = function () {

 req.open("GET", "TextFile.txt", true);
 req.send();

 window.onload = function () {

 req.getResponseHeader("TextFile.txt");
 }
}
```

```
<body>
 <form>
 <input type="button" value="Submit"
 onclick="getText()" />
 <div id="results" />
 </form>
 <script>
 function getText() {
 var req = new XMLHttpRequest();

 if (req.readyState == 4 && req.state == "complete") {
 document.getElementById("results").innerHTML = req.responseText
 }
 }
 </script>
</body>
```

Correct Answer:

```
window.onload = function () {

 req.getResponseHeader("TextFile.txt");
```

```
<body>
 <form>
 <input type="button" value="Submit"
 onclick="getText()" />
 </form>
 <script>
 function getText() {
 var req = new XMLHttpRequest();
 req.onreadystatechange = function () {

 if (req.readyState == 4 && req.status == 200)
 document.getElementById("results").innerHTML
 = req.responseText;
 }
 req.open("GET", "TextFile.txt", true);
 req.send();
 }
 </script>
</body>
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

**106-DRAG DROP**

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. 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:**

```
navigator.geolocation.watchPosition (locSuccess,
locFail);

var spd = position.coords.speed;

navigator.geolocation.getCurrentPosition (locSuccess,
locFail);

var spd = position.coords.accuracy;
```

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/199
<body>
 <script>
 //
 function locSuccess(position)
 {
 //
 }
 function locFail() {
 //
 }
 </script>
</body>
</html>
```

**Correct Answer:**

```
navigator.geolocation.getCurrentPosition (locSuccess,
locFail);
```

```
var spd = position.coords.accuracy;
```

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<body>
 <script>
 navigator.geolocation.watchPosition
 locFail);

 function locSuccess(position)
 var spd = position.coords.speed;

 }

 function locFail() {
 }
 </script>
</body>
</html>
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 12**

108-DRAG DROP 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:**

'application/soap+xml',

'application/x-www-form-urlencoded',

'application/json',

'GET',

'HEAD',

'POST',

'xml',

'json',

'script',

### Answer Area

```
var message = '<soap:Envelope>
$.ajax(webServiceUri, {
 contentType: [REDACTED]
 type: [REDACTED]
 dataType: [REDACTED]
 data: message,
});
```

### Correct Answer:

'application/x-www-form-urlencoded',

'application/json',

'GET',

'HEAD',

'json',

'script',

### Answer Area

```
var message = '<soap:Envelope>
$.ajax(webServiceUri, {
 contentType: 'application/
 type: 'POST',
 dataType: 'xml',
 data: message,
});
```

### Section: (none)

## Explanation

### Explanation/Reference:

#### QUESTION 13

111-Drag Drop You create the following JavaScript code:

```
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.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.

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:

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!');
}
```

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

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

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

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

Correct Answer:

Answer Area

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

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

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

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

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

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

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

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

Section: (none)

Explanation

Explanation/Reference:

**QUESTION 14**

112-DRAG DROP 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>
```

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.

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:**

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 {

xmlhttp = new XMLHttpRequest();}

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

if (window.XMLHttpRequest) {

xmlDoc = xmlhttp.responseXML;

function readXMLFile() {

xmlhttp.send();
```

Correct Answer:

Answer Area

```
function readXMLFile() {

 if (window.XMLHttpRequest) {

 xmlhttp = new XMLHttpRequest();}

 else {

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

 xmlhttp.open("GET", "message.xml", fa

 xmlhttp.send();

 xmlDoc = xmlhttp.responseXML;
```

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

131-DRAG DROP 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:

Answer Area

```
Formatter.prototype.parseValue =
function (input) {
 return _private(input);
}

prototype.parseValue = _private(input);

this._private = function (data) {
 return custom(data);
}

}

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);
};
```

Correct Answer:

Answer Area

```
Formatter.prototype.parseValue =
function (input) {
 return _private(input);
}
```

```
prototype.parseValue = _private(input);
```

```
this._private = function (data) {
 return custom(data);
};
```

```
this.parseValue = function (input) {
 return _private(input);
};
```

```
$('#parseValue') = function (input) {
 return _private(input);
};
```

```
function getFormatter() {

 var _private = function (data) {
 return custom(data);
 };

 return {
 parseValue: function (input)
 { return _private(); }
 };
}
```

**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 16**

136-DRAG DROP 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>
```

You need to ensure that a form cannot be submitted unless the INPUT element contains the word OK. 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:**

Answer Area	
<code>);</code>	
<code>\$( "form" ).submit( function () {</code>	
<code>    return false;</code>	
<code>}</code>	
<code>    return true;</code>	
<code>}</code>	
<code>    if ( \$( "input:first_child" ).val() == "OK" ) {</code>	
<code>        if ( \$( "input:first" ).val() == "OK" ) {</code>	

**Correct Answer:**

<code>if (\$("#input:first").val() == "OK") {</code>	

### Answer Area

```
$("form").submit(function () {
 if ($("#input:first").val() == "OK") {
 return true;
 }
 return false;
});
```

#### Section: (none)

#### Explanation

#### Explanation/Reference:

#### QUESTION 17

137-DRAG DROP 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:

```
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:

event.data.message  
event.data.iterations  
event[message]  
event[iterations]  
postMessage(returnValue);  
relayMessage(returnValue);

### Answer Area

```
onmessage = function (event) {
 if (event.data.message === 'go')
 {
 for (var i = 0; i <= event.data.iterations;
 var returnValue = i;
 }
 postMessage(returnValue);
 }
};
```

### Correct Answer:

event.data.message  
event.data.iterations  
event[message]  
event[iterations]  
relayMessage(returnValue);

### Answer Area

```
onmessage = function (event) {
 if (event.data.message === 'go')
 {
 for (var i = 0; i <= event.data.iterations;
 var returnValue = i;
 }
 postMessage(returnValue);
 }
};
```

### Section: (none)

### Explanation

### Explanation/Reference:

### QUESTION 18

142-DRAG DROP 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: <div id="display"></div>

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. Use only code segments that apply.)

### Select and Place:

### Answer Area

```
this.loanAmount += 1000;
this.loanAmount = 100;
loanAmount = 100;
loanAmount += 1000;
myApp.loanAmount
loanAmount
this.loanAmount += 1000;
```

```
var myApp = {};
(function () {

 this.display = function (value) {
 document.getElementById('display').innerHTML += va
 };
 this.increaseLoanAmount = function () {

 return;
 };
 this.increaseLoanAmountAgain = function () {

 return;
 };
}).apply(myApp);
myApp.increaseLoanAmount();
myApp.increaseLoanAmountAgain();

myApp.display();
```

Correct Answer:

**Answer Area**

```
var myApp = {};
(function () {

 this.loanAmount = 100;

 this.display = function (value) {
 document.getElementById('display').innerHTML += value;
 };
 this.increaseLoanAmount = function () {
 this.loanAmount += 1000;
 return;
 };
 this.increaseLoanAmountAgain = function () {
 this.loanAmount += 1000;
 return;
 };
}).apply(myApp);
myApp.increaseLoanAmount();
myApp.increaseLoanAmountAgain();

myApp.display(myApp.loanAmount);
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

148-DRAG DROP 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.

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:**

Answer Area

```
ordersListing.dispatchEvent(new CustomEvent
("ordersReceived", {
 detail: {
 orderCount: 5
 },
 bubbles: false,
 cancelable: true
}));
```

```
var ordersReceivedEvent = new CustomEvent
("ordersReceived", {
 bubbles: true,
 cancelable: true
});
```

```
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
 },
 bubbles: true,
 cancelable: false
}));
```

Correct Answer:

Answer Area

```
var ordersListing = document.getElementById("ordersListing");
```

```
var ordersReceivedEvent = new CustomEvent("ordersReceived", {
 bubbles: true,
 cancelable: true
});
```

```
ordersListing.addEventListener("orders", showOrders);
```

```
ordersReceived.dispatchEvent(ordersReceivedEvent);
```

```
var ordersReceived = document.getElementById("ordersReceived");
```

```
ordersListing.dispatchEvent(new CustomEvent("ordersReceived", {
 detail: {
 orderCount: 5
 },
 bubbles: true,
 cancelable: false
}));
```

Section: (none)

Explanation

Explanation/Reference:

**QUESTION 20**

149-DRAG DROP 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:**

v3 + v4;  
o.v3 + o.v4;  
this.v3 + this.v4;  
this.o.v3 + this.o.v4;  
add (o, 15, 3);  
add (15, 3) + o;  
add.call(o, 15, 3);  
add.apply (o, 15, 3);

**Answer Area**

```
<script>

 function add(v1, v2) {
 return v1 + v2 + }

 function addValues() {
 var o = { v3: 10, v4: 13 };

 var res =

 return res;
 }

</script>
```

**Correct Answer:**

v3 + v4;  
o.v3 + o.v4;  
  
this.o.v3 + this.o.v4;  
add (o, 15, 3);  
add (15, 3) + o;  
  
add.call(o, 15, 3);  
add.apply (o, 15, 3);

**Answer Area**

```
<script>

 function add(v1, v2) {
 return v1 + v2 + this.v3 + this.v4;

 }

 function addValues() {
 var o = { v3: 10, v4: 13 };

 var res = add.call(o, 15, 3);

 return res;
 }

</script>
```

**Section: (none)**

## Explanation

### Explanation/Reference:

#### QUESTION 21

159-DRAG DROP 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:

```
input: [] { background-color: #e0e0e0; }

<script type="text/javascript">
 function enable(e) {
 if (document.getElementById) {
 if (document.getElementById('IT').checked) {
 document.getElementById('eMail'). [] = [];
 } else {
 document.getElementById('eMail'). [] = [];
 }
 }
 }
</script>
```

### Correct Answer:

enabled

disabled

hidden

set

disabled

```
input: disabled { background-color: #e0e0e0; }

<script type="text/javascript">
 function enable(e) {
 if (document.getElementById) {
 if (document.getElementById('IT').checked) {
 document.getElementById('eMail').disabled = false;
 } else {
 document.getElementById('eMail').disabled = true;
 }
 }
 }
</script>
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

164-DRAG DROP You develop an HTML5 webpage. You have the following HTML markup:

```
<div id="MapContents"></div>

```

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:**

innerHTML

mousemove

mouseout

mouseover

nodeValue

outerText

### Answer Area

```
var contents = document.getElementById("MapContents");
var image = document.getElementById("UsMap");

image.addEventListener(' ', function (e) {
 contents. = "x: " + e.x + "
y: " + e.y +
});
```

### Correct Answer:

mouseout

mouseover

nodeValue

outerText

### Answer Area

```
var contents = document.getElementById("MapContents");
var image = document.getElementById("UsMap");

image.addEventListener('mousemove', function (e) {
 contents.innerHTML = "x: " + e.x + "
y: " + e.y +
});
```

### Section: (none)

### Explanation

### Explanation/Reference:

### QUESTION 23

1- DRAG DROP 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:

```
/^\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 =
 [REDACTED]
 return ssnPattern.test(userinput);
}
```

```
function validateEmail(userinput){
 var emailPattern =
 [REDACTED]
 return emailPattern.test(userinput);
}
```

**Correct Answer:**

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

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

```
/^[\d{3}+\@[\dA-Z0-9.-]+\.\d{2,4}]/;
```

#### Answer Area

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

 return ssnPattern.test(userinput);
}

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

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

**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 24**

4-DRAG DROP 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:

```
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.min.js"></script>
</head>
<body>
 <form>
 <input type="text" name="email" />
 <input type="submit" value="Submit" />
 </form>
 <script>
 $("form").submit(function () {
 var str;
 str = $(this).serialize();
 str = decodeURIComponent(str);
 str = str.toString();
 str = str.toLocaleString();
 str = decodeURI(str);
 return true;
 });
 </script>
</body>
</html>
```

Correct Answer:

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

```
<!DOCTYPE html>
<html>
<head>
 <script src="http://code.jquery.com/jquery-latest.min.js"></script>
</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>
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

10-DRAG DROP 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:**

range

slider

0

18

90

100

37

avgAge()

default

value

required

optional

<input type="range" min="0" max="100" step="5" value="37" />

Correct Answer:

```
<input type="range" min="18" max="90" step="5" value="37" required />
```

Section: (none)

Explanation

Explanation/Reference:

#### QUESTION 26

30-DRAG DROP 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:**



**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 27

34-DRAG DROP 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:**

user important style sheets

user normal style sheets

author normal style sheets

user agent style sheets

author important style sheets

**Correct Answer:**

user important style sheets

author important style sheets

author normal style sheets

user normal style sheets

user agent style sheets

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

39-DRAG DROP You are developing a website that has many web pages with hyperlinks to other sites.

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:**

```
$("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>

</body>
<script>
 $(document).ready(function () {
 :::::::::::::::::::::
 :::::::::::::::::::::
 });
});
</script>
</html>
```

Correct Answer:

```
$("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>

</body>
<script>
 $(document).ready(function () {
 $("a img").each(function () {
 $(this).parent().attr('target', '_blank')
 });
 });
</script>
</html>
```

Section: (none)  
Explanation

Explanation/Reference:

QUESTION 29

43-DRAG DROP 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:

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;
 }
}
```

Correct Answer:

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

size and (min-width:480px)

```
@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;
 }
}
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

44-DRAG DROP You are developing a web page by using HTML5 and CSS3.

Hyperlinks on the page must be rendered with a style that reflects the last user action performed.

You need to style the four anchor elements in the document. In what order should you specify the four anchor selectors?

(To answer, move the appropriate anchor selectors from the list of CSS codes to the answer area and arrange them in the correct order.)

**Select and Place:**

A:link

A:visited

A:hover

A:active

**Correct Answer:**

A:link

A:visited

A:hover

A:active

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

52-DRAG DROP 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 by using binary format if possible
- Retrieve and parse the data from the web service by using XML when binary format is not possible

You need to develop the application to meet the requirements.

What should you do? (To answer, drag the appropriate code segment to the correct location. 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:**

```
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',
```

```
.....
var request = $.ajax({
 uri: '/',
 dataFilter: function (data, type) {

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

Correct Answer:

```
if (request.mimeType == "application/bint")
accepts: 'application/bint, text/xml',
contentType: 'application/bint, text/xml',
if (request.getResponseHeader("Content-Type") == "application/bint")
::::::::::
var request = $.ajax({
 uri: '/',
 dataType: 'application/bint, text/xml',
 dataFilter: function (data, type) {
 if (type == "application/bint")
 return parseBint(data);
 else
 return parseXml(data);
 },
 success: function (data) {
 start(data);
 }
});
```

**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 32**

55-DRAG DROP You are developing an application that reads information from a file.

The application must:

- Execute a block of code if there is an error accessing the file
- Execute a second block of code whether or not there is an error accessing the file

You need to ensure that the error handling requirements are met.

Which three statements should you implement in sequence? (To answer, move the appropriate statements from the list of actions to the answer area and arrange them in the correct order.)

**Select and Place:**

catch(e)

debug

throw

try

finally

**Correct Answer:**

try

debug

catch(e)

throw

finally

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

58-DRAG DROP 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, drag the appropriate word to the correct location in the code segment. Each word 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:**

default  
switch  
break  
case  
case  
break

```
function GetObjectType(obj) {
 switch (obj.constructor) {
 case Number:
 return "Number";
 break;
 case String:
 return "String";
 break;
 default:
 return "Unknown";
 }
}
```

Correct Answer:

default  
switch  
break  
case  
case  
break

```
function GetObjectType(obj) {
 switch (obj.constructor) {
 case Number:
 return "Number";
 break;
 case String:
 return "String";
 break;
 default:
 return "Unknown";
 }
}
```

Section: (none)  
Explanation

Explanation/Reference:

**QUESTION 34**

60-DRAG DROP You are developing an application for an online retailer. The company ships only to certain countries.

The application must:

- Store a list of country codes in an array
- Validate the country code of the shipping address against the countries array
- Include a Boolean value in the array that indicates whether or not you can ship to the country
- Display a list of countries that can be shipped to if the user inputs a code for a country that the retailer cannot ship to 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 from the list of code segments to the correct location or locations 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:**

```
if (!arr[ctry]) {

for (var i in arr)
 if (arr[i]) txt += i + " ";

if (arr[ctry]) {

for (var i; i < arr.length(); i++)
 if (arr[i]) txt += i + " ";

for (var i in arr)
 txt += i + " ";
```

```
.....

<input id="Country" type="text" />
<input type="button" value="submit" onclick="validate()" />
<div id="valid"></div>
<script>
 function validate() {
 var arr = new Array();
 arr["US"] = true;
 arr["CA"] = true;
 arr["UK"] = false;

 var ctry = document.getElementById("Country").value;

 var txt = "Country is not valid. ";
 txt += "Valid values are ";

 document.getElementById("valid").innerText = txt;
 }
</script>
```

**Correct Answer:**

```
if (arr[ctry]) {

for (var i; i < arr.length(); i++)
 if (arr[i]) txt += i + " ";

for (var i in arr)
 txt += i + " ";
```

```
.....

<input id="Country" type="text" />
<input type="button" value="submit" onclick="validate()" />
<div id="valid"></div>
<script>
 function validate() {
 var arr = new Array();
 arr["US"] = true;
 arr["CA"] = true;
 arr["UK"] = false;

 var ctry = document.getElementById("Country").value;
 if (!arr[ctry]) {

 var txt = "Country is not valid. ";
 txt += "Valid values are ";
 for (var i in arr)
 if (arr[i]) txt += i + " ";
 document.getElementById("valid").innerText = txt;
 }
 }
</script>
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 35**

61-DRAG DROP

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 line of code should you use? (To answer, drag the appropriate line or lines of code to the correct location or locations. 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:**

```
self.postMessage('Worker: ' + data);
self.addEventListener('message', function(event));
self.attachEvent('Worker', data);
self.terminate();
self.close();
```

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

Correct Answer:

```
self.attachEvent('Worker', data);
```

```
self.terminate();
```

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

Section: (none)

Explanation

Explanation/Reference:

### QUESTION 36

63-DRAG DROP 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 to 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 line or lines of code should you use? (To answer, drag the appropriate command or commands from the list of commands to the correct location or locations in the work area. 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:**

`var dest = localStorage.destination;`

`localStorage.destination = dest;`

`var dest = sessionStorage.destination;`

`sessionStorage.destination = dest;`

.....

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

 }

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

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

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

**Correct Answer:**

```
var dest = sessionStorage.destination;
sessionStorage.destination = dest;
```

```

<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;

 localStorage.destination = dest;

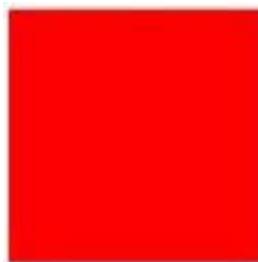
 }
 </script>
</body>
```

Section: (none)  
Explanation

Explanation/Reference:

#### QUESTION 37

68-DRAG DROP 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:**

```
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>
```

**Correct Answer:**

```
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 canvas = document.getElementById('mycanvas');
 var context = canvas.getContext('2d');
 context.fillStyle = "rgb(255, 0, 0)";
 context.fillRect(50, 50, 100, 100);
 </script>
</body>
</html>
```

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

## HOTSPOT

### QUESTION 1

89-HOTSPOT 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;
}
```

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.

#### Hot Area:

Yes	No	Description of Behavior
<input checked="" type="radio"/>	<input type="radio"/>	The color of the <b>International News</b> header is red.
<input type="radio"/>	<input checked="" type="radio"/>	The color of the <b>New Developments!</b> header is black.
<input checked="" type="radio"/>	<input type="radio"/>	The color of the <b>Impact On Markets</b> header is yellow.
<input type="radio"/>	<input checked="" type="radio"/>	The text of the <b>Impact On Markets</b> header is italicized.

#### Correct Answer:

<b>Yes</b>	<b>No</b>	<b>Description of Behavior</b>
<input type="radio"/>	<input checked="" type="radio"/>	The color of the <b>International News</b> header is red.
<input type="radio"/>	<input checked="" type="radio"/>	The color of the <b>New Developments!</b> header is black.
<input type="radio"/>	<input checked="" type="radio"/>	The color of the <b>Impact On Markets</b> header is yellow.
<input checked="" type="radio"/>	<input type="radio"/>	The text of the <b>Impact On Markets</b> header is italicized.

Section: (none)

Explanation

Explanation/Reference:

#### QUESTION 2

90-HOTSPOT 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:

```
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);
}
```

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:

<b>Yes</b>	<b>No</b>	<b>Description of Behavior</b>
<input checked="" type="radio"/>	<input type="radio"/>	The moves are added to the moveList array in the order in which they were played.
<input checked="" type="radio"/>	<input type="radio"/>	The username is sent to the server before any moves are sent or received.
<input checked="" type="radio"/>	<input type="radio"/>	The player's own moves will be added to the moveList array.

Correct Answer:

<b>Yes</b>	<b>No</b>	<b>Description of Behavior</b>
<input checked="" type="radio"/>	<input type="radio"/>	The moves are added to the moveList array in the order in which they were played.
<input checked="" type="radio"/>	<input type="radio"/>	The username is sent to the server before any moves are sent or received.
<input checked="" type="radio"/>	<input type="radio"/>	The player's own moves will be added to the moveList array.

Section: (none)

Explanation

Explanation/Reference:

### QUESTION 3

101-HOTSPOT 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. 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, {message: body,
message = body,
[message] = body,
args.message(body), fileName: fileName
fileName = filename
args.fileName = fileName)
new args.fileName(fileName)});
```

Hot Area:

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

```
send(recipient, {
```

message: body,
message = body,
[message] = body,
args.message(body),

fileName: fileName
fileName = filename
args.fileName = fileName)
new args.fileName(fileName)

```
});
```

**Correct Answer:**

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

```
send(recipient, {
```

message: body,
message = body,
[message] = body,
args.message(body),

fileName: fileName
fileName = filename
args.fileName = fileName)
new args.fileName(fileName)

```
});
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 4**

104-HOTSPOT 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:

```
<div ondrop="myApp.drop(this, event)" ondragenter="return false" ondragover="return false">
 <p>Fruit</p>
</div>
<p>

</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) {
 // code block 1
 };

 this.drop = function (target, e) {
 // code block 2
 target.appendChild(document.getElementById(id));
 e.preventDefault();
 }
}).apply(myApp);
```

**Hot Area:**

```
var myApp = {};
(function () {
 this.drag = function (target, e) {
 // code block 1
 e.dataTransfer.getData('text');
 e.dataTransfer.dropEffect = 'copy';
 e.dataTransfer.effectAllowed = 'all';
 e.dataTransfer.setData('text', target.id);
 };

 this.drop = function (target, e) {
 // code block 2
 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);
```

**Correct Answer:**

```

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);

```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 5**

107-HOTSPOT You develop a webpage. You create the following HTML markup:

```

<!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:



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.)

```
#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;}
```

**Hot Area:**

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

#content {display: flex;
 -ms-flex;
 -ms-flexbox;
 box-flex-group;

 -ms-flex-flow: row;
 -ms-flex-flow: wrap;
 -ms-flex-direction: row;
 -ms-flex-direction: wrap;

 width: 100%;

}

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

#content #main {flex: 0;
 -ms-flex: 0;
 -ms-flex: 1; }

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

**Correct Answer:**

```

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

#content {display:
 -ms-flex;
 -ms-flexbox;
 box-flex-group;

 -ms-flex-flow: row;
 -ms-flex-flow: wrap;
 -ms-flex-direction: row;
 -ms-flex-direction: wrap;

 width: 100%;
}

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

#content #main {
 -ms-flex: 0;
 -ms-flex: 1;
}

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

```

**Section:** (none)  
**Explanation**

**Explanation/Reference:**

#### QUESTION 6

109-HOTSPOT 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:



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 {
```

```
 border: 1px solid black;
```

```
 padding: 10px;
```

```
}
```

```
</style>
```

**Hot Area:**

```
<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>
```

**Correct Answer:**

```
<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>
```

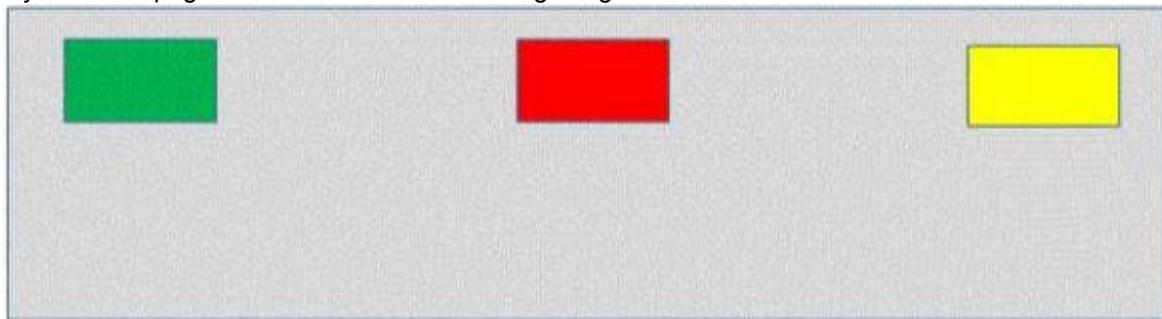
**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 7**

110-HOTSPOT 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:



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>
```

Hot Area:

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

 -ms-flex-align: [] ;
 -ms-flex-pack: [] ;
 width: 550px;
 height: 400px;
 }
</style>
```

The image shows a screenshot of a CSS editor. It displays the following code:

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

 -ms-flex-align: [] ;
 -ms-flex-pack: [] ;
 width: 550px;
 height: 400px;
 }
</style>
```

Two dropdown menus are open over the code. The first dropdown, positioned above the `-ms-flex-align` declaration, contains the following options: "end", "start", "center", and "stretch". The second dropdown, positioned above the `-ms-flex-pack` declaration, contains the following options: "end", "start", "center", and "justify".

Correct Answer:

```

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

 -ms-flex-align: ; 
 width: 550px;
 height: 400px;
 }
</style> 

```

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 8**

113-HOTSPOT You review a web form that contains the following markup and code:

```

<!DOCTYPE html>
<html>
 <head>
 <script type="text/javascript">
 function check1(currentTextBox) {
 if (currentTextBox.value === null || currentTextBox.value === '')
 currentTextBox.style.background = '#ffffacd';
 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 = '#ffffacd';
 }
 }
 </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.

**Hot Area:**

<b>Yes</b>	<b>No</b>	<b>Description of behavior</b>
<input type="radio"/>	<input checked="" type="radio"/>	Both text boxes are displayed with a yellow background when the page loads.
<input checked="" type="radio"/>	<input type="radio"/>	The background color of both text boxes changes to yellow each time the text boxes receive the focus.
<input type="radio"/>	<input checked="" type="radio"/>	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:**

<b>Yes</b>	<b>No</b>	<b>Description of behavior</b>
<input checked="" type="radio"/>	<input type="radio"/>	Both text boxes are displayed with a yellow background when the page loads.
<input type="radio"/>	<input checked="" type="radio"/>	The background color of both text boxes changes to yellow each time the text boxes receive the focus.
<input checked="" type="radio"/>	<input type="radio"/>	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.

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

114-HOTSPOT You test a webpage that contains the following JavaScript code:

```
<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" />

Integer 2: <input type="text" id="int2" />

<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.

**Hot Area:**

Yes	No	Description of Behavior
<input type="radio"/>	<input type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the number <b>3</b> in the <b>int2</b> textbox, and then clicks the <b>add</b> button, the webpage displays an alert message with a value of <b>5</b> .
<input type="radio"/>	<input type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the number <b>0</b> in the <b>int2</b> textbox, and then clicks the <b>divide</b> button, the unhandled JavaScript function runs.
<input type="radio"/>	<input type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the letter <b>a</b> in the <b>int2</b> textbox, and then clicks the <b>divide</b> button, the unhandled JavaScript function runs.

**Correct Answer:**

Yes	No	Description of Behavior
<input type="radio"/>	<input checked="" type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the number <b>3</b> in the <b>int2</b> textbox, and then clicks the <b>add</b> button, the webpage displays an alert message with a value of <b>5</b> .
<input type="radio"/>	<input checked="" type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the number <b>0</b> in the <b>int2</b> textbox, and then clicks the <b>divide</b> button, the unhandled JavaScript function runs.
<input checked="" type="radio"/>	<input type="radio"/>	If the user enters the number <b>2</b> in the <b>int1</b> textbox, the letter <b>a</b> in the <b>int2</b> textbox, and then clicks the <b>divide</b> button, the unhandled JavaScript function runs.

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

121-HOTSPOT You troubleshoot a webpage that includes the following code segment:

```

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.

**Hot Area:**

Yes	No	Description of <code>customer.name</code> variable
<input type="radio"/>	<input checked="" type="radio"/>	An error will be thrown
<input checked="" type="radio"/>	<input type="radio"/>	Contoso
<input type="radio"/>	<input checked="" type="radio"/>	undefined
<input checked="" type="radio"/>	<input type="radio"/>	null
<input type="radio"/>	<input checked="" type="radio"/>	false

**Correct Answer:**

Yes	No	Description of <code>customer.name</code> variable
<input checked="" type="radio"/>	<input type="radio"/>	An error will be thrown
<input type="radio"/>	<input checked="" type="radio"/>	Contoso
<input checked="" type="radio"/>	<input type="radio"/>	undefined
<input type="radio"/>	<input checked="" type="radio"/>	null
<input type="radio"/>	<input checked="" type="radio"/>	false

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

122-HOTSPOT 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.

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

```
function madeSelection(element, message) {
 [] ▾
 alert(message);
 [] ▾
 [] ▾
} else {
 [] ▾
}
}
```

**Hot Area:**

```
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;
 }
 } else {

 return true;
 return false;
 }
 } else {

 return true;
 return false;
 }
 }
}
```

**Correct Answer:**

```
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;
 }
 } else {

 return true;
 return false;
 }
 } else {

 return true;
 return false;
 }
 }
}
```

**Section: (none)**

## Explanation

### Explanation/Reference:

#### QUESTION 12

##### 123-HOTSPOT

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.)

```
<script type="text/javascript">
 var currencyRate;
 function getExchangeRate(){
 $.ajax({
 cache: false,
 type: 'GET',
 url: "CurrencyConverter.asmx/GetExchangeRate",
 data: { 'currencyType': getCurrencyType() },
 dataType: 'json',
 success: function (result) {
 currencyRate = result;
 }
 });
 }

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

### Hot Area:

```
<script type="text/javascript">
 var currencyRate;
 function getExchangeRate() {
 $.ajax({
 cache: true,
 type: 'GET',
 url: "CurrencyConverter.asmx/GetExchangeRate",
 data: { 'currencyType': getCurrencyType() },
 dataType: 'json',
 success: function (result) {
 currencyRate = result;
 }
 });
 }

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

**Correct Answer:**

```
<script type="text/javascript">
 var currencyRate;
 function getExchangeRate() {
 $.ajax({
 cache: true,
 type: 'GET',
 url: "CurrencyConverter.asmx/GetExchangeRate",
 data: { 'currencyType': getCurrencyType() },
 dataType: 'json',
 success: function (result) {
 currencyRate = result;
 }
 });
 }

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

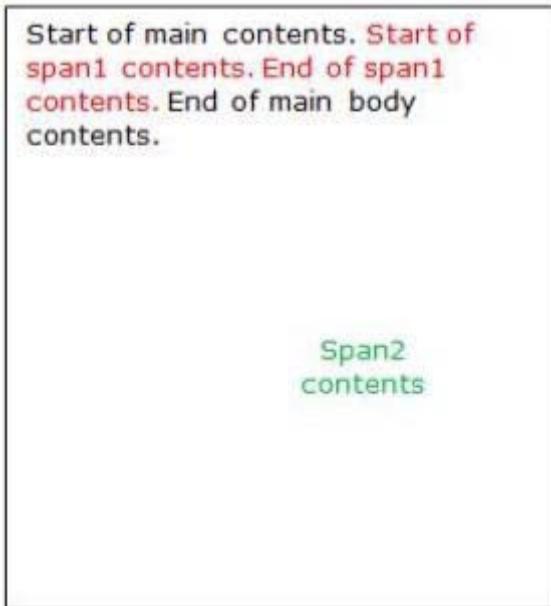
**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 13**

124-HOTSPOT You develop a webpage. The layout of the webpage must resemble the following image:



You need to ensure that the page renders properly. How should you complete the relevant CSS styles? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<!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.
 Start of span1 contents.
 Span2 contents.
End of span1 contents.
End of main contents.
</p>
</body>
</html>
```

**Hot Area:**

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

 #span1 { color: red; }

 z-index: 1
 float: left
 position: relative
 position: absolute

 #span2 { color: green; }

 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.
 Start of span1 contents.
 Span2 contents.
 End of span1 contents.
 End of main contents.
 </p>
</body>
</html>
```

Correct Answer:

```
<!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.
 Start of span1 contents.
 Span2 contents.
 End of span1 contents.
 End of main contents.
 </p>
</body>
</html>
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

**125-HOTSPOT**

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>
```

Hot 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>
```

Correct Answer:

```

<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 |

 }

 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>

```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 15**

135-HOTSPOT 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.)

**Hot Area:**

```
<script>
 var squareShape;
 var myTimer;

 function startAnimation () {
 squareShape=

 squareShape.currentTheta = 0;

 myTimer=

 animateImage ();
 }

 function animateImage () {
 squareShape.setAttribute("rotate", "angle(")
 squareShape.setAttribute("transform", "angle(")
 squareShape.setAttribute("transform", "rotate(")
 squareShape.setAttribute("mySquare", "transform(")

 + squareShape.currentTheta + ")\"");
 squareShape.currentTheta += 0.1;
 }
</script>
```

**Correct Answer:**

```
<script>
 var squareShape;
 var myTimer;

 function startAnimation () {
 squareShape= document.myImage;
 squareShape=document.mySquare;
 squareShape=document.getElementById("myImage");
 squareShape=document.getElementById("mySquare");

 squareShape.currentTheta = 0;

 myTimer= speed.value;
 myTimer.interval (speed.value);
 setTimer/animateImage, speed.value);
 new timer/animateImage, speed.value);
 setInterval/animateImage, speed.value);

 animateImage ();
 }

 function animateImage () {
 squareShape.setAttribute("rotate", "angle(")
 squareShape.setAttribute("transform", "angle(")
 squareShape.setAttribute("transform", "rotate(")
 squareShape.setAttribute("mySquare", "transform("

 + squareShape.currentTheta + ") ");
 squareShape.currentTheta += 0.1;
 }
</script>
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 16**  
138-HOTSPOT

```

<!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="content" class="container">

```

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:**

Yes	No	
<input checked="" type="radio"/>	<input type="radio"/>	Content in the DIV element named <b>content</b> flows around all sides of the DIV element named <b>blueBox</b> .
<input type="radio"/>	<input checked="" type="radio"/>	The DIV element named <b>blueBox</b> will always be displayed at row 2, column 2 of the grid.
<input checked="" type="radio"/>	<input type="radio"/>	Content in the DIV element named <b>content</b> will fill all cells in the grid.

**Correct Answer:**

<b>Yes</b>	<b>No</b>	
<input type="radio"/>	<input checked="" type="radio"/>	Content in the DIV element named <b>content</b> flows around all sides of the DIV element named <b>blueBox</b> .
<input checked="" type="radio"/>	<input type="radio"/>	The DIV element named <b>blueBox</b> will always be displayed at row 2, column 2 of the grid.
<input checked="" type="radio"/>	<input type="radio"/>	Content in the DIV element named <b>content</b> will fill all cells in the grid.

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

143-HOTSPOT You create a custom style by using CSS3. A box with rounded corners must appear around text.

The box must match the following illustration:



Hello

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:**

```
<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>
```

**Correct Answer:**

```
<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>
```

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 18**

144-HOTSPOT

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.)

```
<script>
 function getStatus(url, callback) {
 var httpRequest = new XMLHttpRequest();
 httpRequest.onreadystatechange = function () {
 if (httpRequest.readyState === 4
 && httpRequest.status === 200) {

 }
 };
 httpRequest.open('GET', url);
 httpRequest.send();
 }

 function start(url) {
 getStatus(url, function () {

 });
 }
</script>
```

**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:**

```
<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>
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

147-HOTSPOT You review a webpage that contains the following markup:

```

<!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>

```

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:**

Yes	No	
<input checked="" type="radio"/>	<input type="radio"/>	Content in the DIV element named <b>content</b> flows around all sides of the DIV element named <b>blueBox</b> .
<input type="radio"/>	<input checked="" type="radio"/>	The DIV element named <b>blueBox</b> will always be displayed at row 2, column 2 of the grid.
<input type="radio"/>	<input checked="" type="radio"/>	Content in the DIV element named <b>content</b> will fill all cells in the grid.

**Correct Answer:**

Yes	No	
<input type="radio"/>	<input checked="" type="radio"/>	Content in the DIV element named <b>content</b> flows around all sides of the DIV element named <b>blueBox</b> .
<input checked="" type="radio"/>	<input type="radio"/>	The DIV element named <b>blueBox</b> will always be displayed at row 2, column 2 of the grid.
<input checked="" type="radio"/>	<input type="radio"/>	Content in the DIV element named <b>content</b> will fill all cells in the grid.

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

165-HOTSPOT 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.

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
 {
 width: 6em;
 height: 4em;
 position: absolute;
 }

 #box2
 {
 width: 6em;
 height: 4em;
 position: absolute;
 }
</style>
```

**Hot Area:**

```
<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;

 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>
```

Correct Answer:

```

<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;

 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>

```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

169-HOTSPOT 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(inputValue) 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.)

If user inputs:

-13    `isNaN(userInput)`    returns  

24.3    `isNaN(userInput)`    returns  

3\*8    `isNaN(userInput)`    returns  

'5'    `isNaN(userInput)`    returns  

Hot Area:

If user inputs:

-13    `isNaN(userInput)`    returns    

True	
False	

24.3    `isNaN(userInput)`    returns    

True	
False	

3\*8    `isNaN(userInput)`    returns    

True	
False	

'5'    `isNaN(userInput)`    returns    

True	
False	

Correct Answer:

**If user inputs:**

-13    `isNaN(userInput)`    returns

True	
False	

24.3    `isNaN(userInput)`    returns

True	
False	

$3^8$     `isNaN(userInput)`    returns

True	
False	

'5'    `isNaN(userInput)`    returns

True	
False	

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

8-HOTSPOT 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.)

```
var request = $.ajax({
 uri: '/',
 if (request.getResponseHeader("Content-Type") == "application/bint")
 dataFilter: function (data, type) {
 if (request.getResponseHeader("Content-Type") == "application/bint")
 return parseBint(data);
 else
 return parseXml(data);
 },
 success: function (data) {
 start(data);
 }
});
```

Hot Area:

```
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);
 }
});
```

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);
 }
});
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

14-HOTSPOT 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.)

```
<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>
```

Hot Area:

```
<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>
```

Correct Answer:

```

<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>

```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

**15-HOTSPOT**

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.)

```


<div data-bbox="150 170 560 205" data-label="Image">

 </div>
</div>
```

Hot Area:

```
< >
```

title  
figcaption  
label  
aside  
figure  
cite

```

```

```
< >
```

title  
figcaption  
label  
aside  
figure  
cite

## Image description

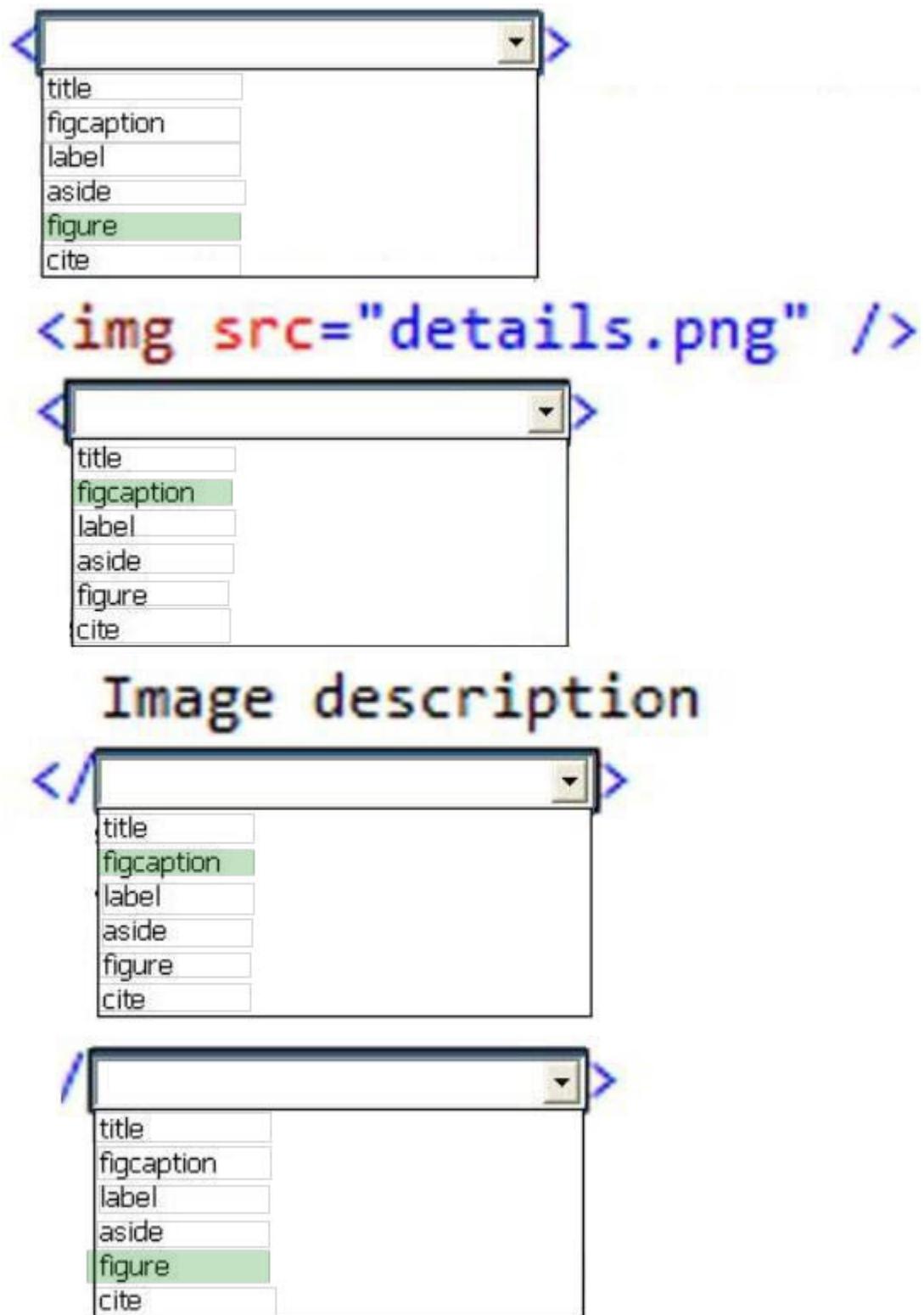
```
</ >
```

title  
figcaption  
label  
aside  
figure  
cite

```
/ >
```

title  
figcaption  
label  
aside  
figure  
cite

Correct Answer:

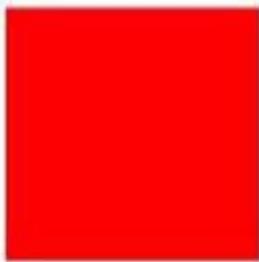


Section: (none)  
Explanation

Explanation/Reference:

**QUESTION 25**

18-HOTSPOT 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.)

```
<!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>
```

Hot Area:

```
<!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>
```

**Correct Answer:**

```
<!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>
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

21-HOTSPOT 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.)

```
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);
```

Hot Area:

```
self.postMessage('Worker: ' + data);
self.postMessage('Worker: ' + data);
self.addEventListener('message', function(event));
self.attachEvent('Worker', data);
self.terminate();
self.close();

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

Correct Answer:

```
self.postMessage('Worker: ' + data);
self.postMessage('Worker: ' + data);
self.addEventListener('message', function(event));
self.attachEvent('Worker', data);
self.terminate();
self.close();

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

Section: (none)  
Explanation

Explanation/Reference:

**QUESTION 27**

23-HOTSPOT 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.)

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

Hot Area:

```
function GetObjectType(obj) {
 default ;
 default
 switch
 break
 case

 default ;
 Number:
 default
 switch
 break
 case

 return "Number";

 default ;
 default
 switch
 break
 case

 String:
 default
 switch
 break
 case

 return "String";

 default ;
 default
 switch
 break
 case

 :
 default
 switch
 break
 case

 return "Unknown";
 }
}
```

**Correct Answer:**

```
function GetObjectType(obj) {
 default : (obj.constructor) {
 default
 switch
 break
 case

 default : Number:
 default
 switch
 break
 case

 return "Number";

 default : ;
 default
 switch
 break
 case

 String:
 default
 switch
 break
 case

 return "String";

 default : ;
 default
 switch
 break
 case

 default :
 default
 switch
 break
 case

 return "Unknown";
 }
}
```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

37-HOTSPOT 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.)

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

@media screen and (min-width:200px) and (max-width:480px)
{
 #navbar {
 float: left;
 width: 500px;
 }
}
```

**Hot Area:**

```
@media screen and (min-width:200px) and (max-width:480px)
{
 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)

#navbar {
 float: none;
 width: 200px;
}

}
@media screen and (min-width:200px) and (max-width:480px)
{
 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)

}

{
 #navbar {
 float: left;
 width: 500px;
 }
}
```

Correct Answer:

```

@media screen and (min-width:200px) and (max-width:480px)
{
 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)

#navbar {
 float: none;
 width: 200px;
}

}

@media screen and (min-width:200px) and (max-width:480px)
{
 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)

}

{
 #navbar {
 float: left;
 width: 500px;
 }
}

```

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

42-HOTSPOT You are developing an HTML5 application for a company. You apply the following style to a DIV element on a page.

```

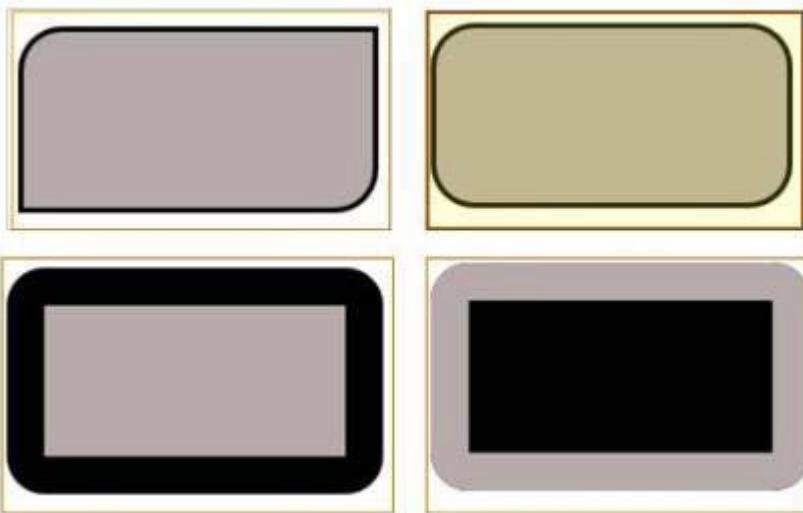
div
{
 border:3px solid;
 background:#b6aaaa;
 width:200px;
 height:100px;
 top: 10%;
 left:10%;
 border-radius:25px 0px 25px 0px;
}

```

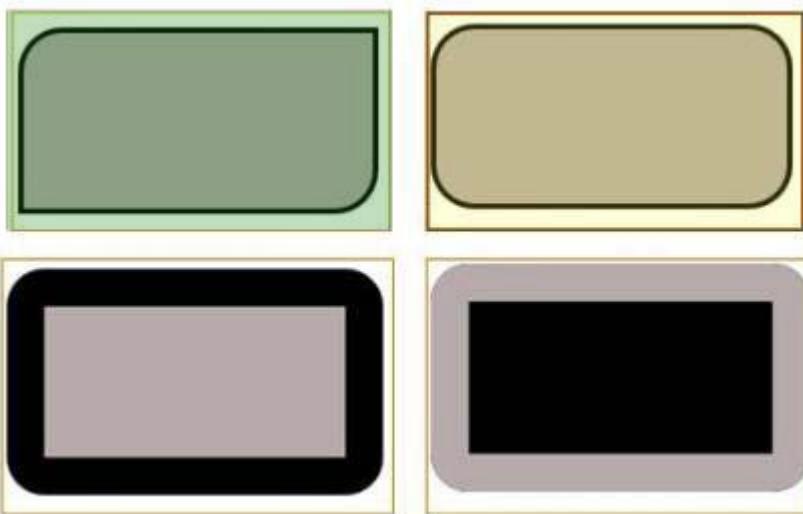
You need to submit a draft illustration of the results of this code.

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

**Hot Area:**



**Correct Answer:**



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

**50-HOTSPOT**

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 used in the email address.

You need to implement this functionality. How should you develop the form? (To answer, select the appropriate options from the drop-down lists in the answer area.)

**Hot Area:**

```
<!DOCTYPE html>
<html>
<head>
 <script src="http://code.jquery.com/jquery-latest.js"></script>
</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);
 str = $("form").contents.toString();
 str = $("form").toLocaleString();
 str = decodeURI(str);
 return true;
 });
 </script>
</body>
</html>
```

**Correct Answer:**

```

<!DOCTYPE html>
<html>
<head>
 <script src="http://code.jquery.com/jquery-latest.js"></script>
</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);
 str = $("form").contents.toString();
 str = $("form").toLocaleString();
 str = decodeURI(str);
 return true;
 });
 </script>
</body>
</html>

```

**Section:** (none)  
**Explanation**

**Explanation/Reference:**

### QUESTION 31

56-HOTSPOT 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, select the appropriate option from the drop-down list in the answer area.)

**Hot Area:**

Work Area

The image shows four separate dropdown menus, each containing the same five items: "throw", "throw", "Invalid", "200", "Error", and "break". The first menu has "throw" selected. The second menu has "throw" selected. The third menu has "throw" selected. The fourth menu has "throw" selected.

throw	new	throw	,	throw	);
throw		throw	,	throw	
"Invalid"		"Invalid"	,	"Invalid"	
200		200	,	200	
Error		Error	,	Error	
break		break		break	

**Correct Answer:**

Work Area

The image shows four separate dropdown menus. The first menu has "throw" selected and is highlighted with a green background. The second menu has "throw" selected. The third menu has "200" selected and is highlighted with a green background. The fourth menu has "throw" selected.

throw	new	throw	,	throw	);
throw		throw	,	throw	
"Invalid"		"Invalid"	,	"Invalid"	
200		200	,	200	
Error		Error	,	Error	
break		break		break	

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## Basic HTML5

### QUESTION 1

67-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. Which HTML5 element should you use?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

69-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>
```

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?

- A. <aside>
- B. <div>
- C. <article>
- D. <footer>

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 3**

70-You are developing an HTML5 page.  
You need to add author and copyright information.  
Which tag should you use?

- A. <aside>
- B. <header>
- C. <footer>
- D. <section>

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 4**

65-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. <span>
- D. <div>

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 5**

76-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. <div>
- D. <span>

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 6**

78-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. <div>
- D. <table>

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 7**

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

82-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. <tbody>
- B. <article>
- C. <div>
- D. <span>

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

83-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. <span>
- B. <nav>
- C. <cable>
- D. <section>

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

116-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. 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:**

**QUESTION 11**

117-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**

**Explanation/Reference:**

**QUESTION 12**

127-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?

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

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 13**

130-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. <span>
- C. <tbody>
- D. <cd>

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

133-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

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 15**

139-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.

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="myVideo" height="320" width="400" src="myVideo.vtt" controls> </video>
- C. <video \_d="myVideo" height="320" width="400" src="myVideo.vtt" autoplay> </video>
- D. <video id="myVideo" height="320" width="400" src="myVideo.vtt" contextmenu="Startstopn"> </video>

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 16**

145-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" style="visibility:hidden;" required />
- D. <input type="button" value="password" required />

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 17**

155-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. <div id="outer" style="width: 100px; column-fill: balance;">...</div>
- B. <div id="outer" style="width: 100px; column-gap: 10px;">...</div>
- C. <div id="outer" style="column-width: 100px;">...</div>

D. <div id="outer" style="width: 100px; columns: 100px 3">...</div>

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 18

156-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:

Enter your given name

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" />

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 19

160-You are developing an HTML5 web form to collect feedback information from site visitors.

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" defaulc="5">
- C. Rating (Between 1 and 10): <input type="range" name="rating" min="0" max="10" default="5">
- D. Rating (Between 1 and 10): <input type="range" name="rating" min="1" max="10" value="5">

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 20

163-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:

- 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?

- C A. 

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

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

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

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

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

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

E.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 21**

3-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.

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:**

### **QUESTION 22**

9-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"/>
- 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:**

### **QUESTION 23**

13-You are modifying an existing web page. The page is being optimized for accessibility. The current page contains the following HTML.

```

 Home
 Sales
 Operations

```

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. <div id="nav"> </div>
- C. <nav> </nav>
- D. <map> </map>

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 24

26-You are troubleshooting a web page that includes the following code. (Line numbers are included for reference only.)

```
01 <!DOCTYPE html>
02 <html lang="en" xmlns="http://www.w3.org/1999/xhtml">
03 <head>
04 <meta charset="utf-8" />
05 <title></title>
06 <script>
07 document.addEventListener("DOMContentLoaded", function () {
08 var elButton = document.getElementById("myButton");
09 var elDiv = document.getElementById("myDiv");
10 elButton.addEventListener("click", function () {
11 alert(this.type);
12 }, false);
13 }, false);
14 </script>
15 </head>
16 <body>
17 <div id="myDiv">Test</div>
18 <input type="button" id="myButton" value="Click Me" />
19 </body>
20 </html>
```

What is displayed in the alert from line 11?

- A. Div
- B. Function
- C. Button
- D. Document

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

29-You are developing an HTML5 web page.

The appearance of the text box must change when a user moves the focus to another element on the page. You need to develop the page to respond to user action. Which line of code should you use?

- A. <input type="text" onblur="resetStyle(this);"
- B. <input type="text" onfocus="resetStyle(this);"
- C. <input type="text" onreset="resetStyle(this);"
- D. <input type="text" onselect="resetStyle(this);"

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

47-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="/#"
- B. <input id="txtValue" type="number"
- C. <input id="txtValue" type="integer"
- D. <input id="txtValue" type="text" required="required"/>

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

48-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="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:**

**QUESTION 28**

118-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:** CE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## CSS3

### QUESTION 1

71-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. Lowercase
- B. Blink
- C. Line-through
- D. 20px

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

74-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: 0px 1in 5px;
- C. Text-shadow: 72pt 0em 5px;
- D. Text-shadow: 100px 0px 5px;

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

text-shadow : left top blur(blur radius) color

also

text-shadow: 0px 72pt 5px; because 1in=72pt

### QUESTION 3

80-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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

81-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. Italic
- B. Line-through
- C. Capitalize
- D. 20px

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

84-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. red
- B. hidden
- C. lowercase
- D. italic

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

85-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. lowercase
- B. 20px
- C. line-through
- D. italic

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

87-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. Italic
- B. Red
- C. Capitalize

D. Line-through

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

88-You develop an HTML5 webpage. You have the following HTML markup: (Line numbers are for reference only.)

```
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>
```

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.
- 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:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

91-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:



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?

- 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.
- B.
- C.
- D.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

c équivalente dans la deuxième ligne à 100px (250px 100px){2}

**QUESTION 10**

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

```
<!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">

 First List Item

 Child List Item

 Second List Item
 Third List Item
 Fourth List Item

 <p>Some interesting information that we need to display.</p>
 <p>More information that is important to this page.</p>
 </div>
</body>
</html>
```

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?

C 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>
```

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

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

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

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

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

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

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

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 11**

94-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>
```

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

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

132-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>
```

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

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: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### QUESTION 13

5-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.)

```

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 function OnSuccess(data, status) {
14 ...
15 }
16 function OnError(request, status, error) {
17 ...
18 }
19
20 </script>

```

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`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 14

31-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: 0px 1in 5px;`

- C. text-shadow: 72pt 5em 0px
- D. text-shadow: 72pt 0em 5px;

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 15

33-You are developing a web page. You create a grid layout by using the following CSS segment.

```
#myGrid {
 display: -ms-grid;
 background: gray;
 -ms-grid-columns: 100px 100px;
 -ms-grid-rows: 50px 50px 50px;
}
```

You have the following requirements:

- You must place content in the first column of the second row.
- The content must span two columns.

You need to ensure that the style of the grid meets the requirements. Which CSS segment should you use?

- A. 

```
#itemSpan {
 -ms-grid-row: 2;
 -ms-grid-column: 1;
 -ms-grid-column-span: 2
}
```
- B. 

```
#itemSpan {
 -ms-grid-row: 2;
 -ms-grid-column: 1;
 -ms-grid-column-span: initial
}
```
- C. 

```
#itemSpan {
 -ms-grid-row: 2;
 -ms-grid-column: 1;
 -ms-grid-column-width: 2;
}
```
- D. 

```
#itemSpan {
 -ms-grid-row: 2;
 -ms-grid-column: 1;
 -ms-grid-column-span: inherit
}
```

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 16

35-You are developing a web page by using HTML5.

You have the following requirements:

- An H1 element must be placed at the top left corner of the page.
- The size and location of the H1 element must not change if additional elements are added to the page.

You need to position the H1 element on the page.

Which CS53 style should you use?

A. 

```
h1
{
 position: absolute;
 left: 0px;
 top: 0px;
}
```

C. 

```
h1
{
 position: static;
 left: 100%;
 top: 100%;
}
```

B. 

```
h1
{
 position: absolute;
 left: 100%;
 top: 100%;
}
```

D. 

```
h1
{
 position: static;
 left: 0px;
 top: 0px;
}
```

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 17

36-You are styling a box object on a page by using CSS3.

You need to set the transparency of the object to 50%.

Which two C5S3 styles will achieve the goal? (Each correct answer presents a complete solution. Choose two.)

- A. .Box {  
    background: rgb(255,0,0);  
    backface-visibility: hidden;  
}
- B. .Box {  
    background: rgb(255,0,0);  
    background: rgba(255,0,0,.5);  
}
- C. .Box {  
    background: rgb(255,0,0);  
    opacity: 0.5;  
}
- D. .Box {  
    background: rgb(255,0,0);  
    background-color: #fff;  
}

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

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 18**

38-You are developing an HTML5 web application and are styling text.

You need to use the text-transform CSS property.

Which values are valid for the text-transform property?

- A. hidden
- B. blink
- C. capitalize
- D. line-through

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 19**

40-You are developing a page that includes text and an illustration.

The web page resembles the following image.

ris nisi ut aliquip ex ea commodo consequat. Duis aute i  
erit esse cillum dolore eu fugiat nulla pariatur. Exceptet  
sunt in culpa  
arum und  
distinct. Nam  
se civiuda. Et  
libidig met,  
na aliquam  
s nostrud  
voluptate velit  
rinde ad eos et accusam dignissum qui blandit est praes  
t occae. Et harund dereud facilis est er expedit distinct.  
est congue nihil impedit doming id Lorem ipsum dolor:



- You have the following requirements:
- The illustration must be in the center of the page.
- The text must flow around the left, right, top, and bottom of the illustration.

You need to ensure that the layout of the web page meets the requirements.

Which line of code should you use?

- A. -ms-wrap-side: both;
- B. -ms-wrap-side: clear;
- C. -ms-wrap-side: maximum;
- D. -ms-wrap-side: auto;

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### **QUESTION 20**

45-You are developing a web page that will be divided into three vertical sections.

The main content of the site will be placed in the center section.

The two outer sections will contain advertisements. You have the following requirements:

- The main content section must be set to two times the width of the advertising sections.
- The layout must be specified by using the CSS3 flexible box model.

You need to ensure that the visual layout of the page meets the requirements.

Which CSS3 property should you use?

- A. box-orient
- B. box-flex-group
- C. box-flex
- D. box-direction

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### **QUESTION 21**

46-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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 22

150-You are developing a web page that includes the following HTML. `<span id = "myTextSpan" class = "redText"> Hello There! </span>`

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.

B.

C.

D.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**