



**Microsoft**

**Exam Questions 70-480**

Programming in HTML5 with JavaScript and CSS3

### NEW QUESTION 1

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?

- ☐ A. 

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

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

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

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

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

**Answer:** D

**Explanation:**

.val

Return value

A string containing the value of the element, or an array of strings if the element can have multiple values

### NEW QUESTION 2

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 =

**Answer:** D

**Explanation:**

Example:

```
xhr.upload.onprogress = function(evt)
{
if (evt.lengthComputable)
{
var percentComplete = parseInt((evt.loaded / evt.total) * 100); console.log("Upload: " + percentComplete + "% complete")
}
};
```

Reference:

<http://stackoverflow.com/questions/3352555/xhr-upload-progress-is-100-from-the-start>

**NEW QUESTION 3**

**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>
```

```
<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>
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- \* retrieve localStorage.destination
- \* store localStorage.destination

**NEW QUESTION 4**

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

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

When a user selects the check box, an input text box must be added to the page dynamically. You need to ensure that the text box is added. Which function should you use?



- ☐ A. 

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

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

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

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

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

**Answer: B**

**Explanation:**

We create a new div element with the textbox.

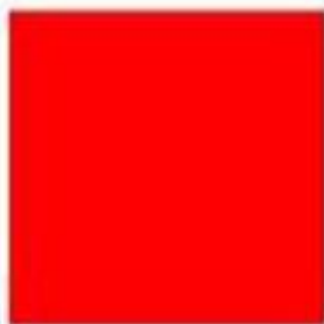
We then use appendChild() method appends this node as the last child the input node divname. Reference: HTML DOM appendChild() Method

**NEW QUESTION 5**

**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>
<!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>
```

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

\* getElementById

The getElementById() method accesses the first element with the specified id. We use it to get a reference to the canvas.

\* context.fillStyle. Example:

Define a red fill-color for the rectangle: JavaScript:

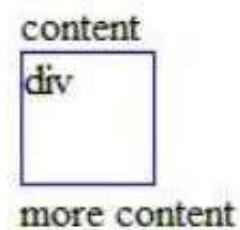
var c=document.getElementById("myCanvas"); var ctx=c.getContext("2d"); ctx.fillStyle="#FF0000"; ctx.fillRect(20,20,150,100);

Reference: HTML canvas fillStyle Property

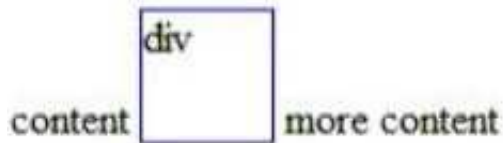
**NEW QUESTION 6**

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";

**Answer:** A

#### Explanation:

\* display: value; value: inline

Default value. Displays an element as an inline element (like <span>)

\* Example

Display <p> elements as inline elements: p.inline {

display: inline;

}

Reference: CSS display Property [http://www.w3schools.com/cssref/pr\\_class\\_display.asp](http://www.w3schools.com/cssref/pr_class_display.asp)

#### NEW QUESTION 7

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")

**Answer:** BD

#### Explanation:

When comparison is made using double-equals operator (==), it will check the values of variable and convert them to a common type and returns true if both are equals. So comparing number with string having the same value will return true.

Examples: examples: 1

console.log(23 == "23"); // true

2

console.log(1 == true); // true Incorrect:

not ===: This is "strict" or "identical" equality.

Reference: JavaScript Triple Equals Operator vs Double Equals Operator ( === vs == )

#### NEW QUESTION 8

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);" />

**Answer:** A

#### Explanation:

Definition and Usage

The onblur event occurs when an object loses focus.

Example

Execute a JavaScript when a user leaves an input field:

<input type="text" onblur="myFunction()"> Reference: onblur Event [http://www.w3schools.com/jsref/event\\_onblur.asp](http://www.w3schools.com/jsref/event_onblur.asp)

#### NEW QUESTION 9

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

**Answer:** A

**Explanation:**

-ms-grid-column-span

Gets or sets a value that specifies the number of columns of the grid that the object spans. This property is read-only.

Property values

The number of columns.

Integer value that specifies the number of columns to span. Reference: -ms-grid-column-span property

**NEW QUESTION 10**

You are developing a page that includes text and an illustration. The web page resembles the following image.



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



**Answer:** A

**Explanation:**

. -ms-wrap-flow

Gets or sets a value that specifies how exclusions impact inline content within block-level elements. Syntax

-ms-wrap-flow: auto | both | start | end | maximum | clear both

Inline flow content can flow on all sides of the exclusion.

Reference: -ms-wrap-flow property

[http://msdn.microsoft.com/en-us/library/ie/hh673558\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/ie/hh673558(v=vs.85).aspx) <http://dev.w3.org/csswg/css3-exclusions/>

**NEW QUESTION 10**

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.)

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;
    }
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\* The @media rule is used to define different style rules for different media types/devices. CSS Syntax

@media not|only mediatype and (media feature) { CSS-Code;

}

\* Media type: Screen

Used for computer screens. Incorrect:

Not size: there is no media type size.

Reference: CSS3 @media Rule; CSS Media Types

**NEW QUESTION 12**

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.)



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Reference: As it states:

\* a: hover MUST come after a: link and a: visited in the CSS definition in order to be effective!

\* active MUST come after a: hover in the CSS definition in order to be effective!!

Reference: Meet the Pseudo Class Selectors; CSS Pseudo-classes <http://css-tricks.com/pseudo-class-selectors/>  
[http://www.w3schools.com/css/css\\_pseudo\\_classes.asp](http://www.w3schools.com/css/css_pseudo_classes.asp)

**NEW QUESTION 17**

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

**Answer:** C

**Explanation:**

box-flex

Values: 0 | Any integer

The flexibility ratio for this child. If a child had 1 and its sibling had 2, any additional space in the parent box would be consumed twice as much by the sibling. It defaults to 0 which is inflexible. Reference: Quick hits with the Flexible Box Model <http://www.html5rocks.com/en/tutorials/flexbox/quick/>

**NEW QUESTION 18**

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"/>`

**Answer:** B

**Explanation:**

HTML5 Input Types: color

date datetime

datetime-local email

month

number range search tel

time url week

Reference: HTML Input Types [http://www.w3schools.com/html/html5\\_form\\_input\\_types.asp](http://www.w3schools.com/html/html5_form_input_types.asp)

**NEW QUESTION 21**

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" />`

**Answer:** B

#### Explanation:

HTML <input> pattern Attribute

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

Example

An HTML form with an input field that can contain only three letters (no numbers or special characters):

```
<form action="demo_form.asp">
```

```
Country code: <input type="text" name="country_code" pattern="[A-Za-z]{3}" title="Three letter country code">
```

```
<input type="submit">
```

```
</form>
```

Reference: HTML <input> pattern Attribute [http://www.w3schools.com/tags/att\\_input\\_pattern.asp](http://www.w3schools.com/tags/att_input_pattern.asp)

#### NEW QUESTION 26

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?

☐ A. 

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

☐ B. 

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

☐ C. 

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

☐ D. 

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

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

**Answer:** A

#### Explanation:

\* Input Text Object Properties include:

value: Sets or returns the value of the value attribute of the text field

\* Check if text is a null value or an empty string. Incorrect:

not .get(): there is no input text object property get. Reference: HTML DOM Input Text Object

#### NEW QUESTION 29

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.)



```
<!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);

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

      return true;
    });
  </script>
</body>
</html>
```

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

\* serialize()

Encode a set of form elements as a string ready for submission. decodeURIComponent

\* To decode the string, PHP offers the urldecode() function.

?

echo urldecode('name%40website.com'); //restores "name@website.com" Reference: JavaScript decodeURIComponent() Function

**NEW QUESTION 32**

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.)

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\* accepts : 'application/bint, text/xml'  
 accepts:'application/bin,text/xml' to accept only XML and binary content in HTML responses.  
 \* Use the following condition to check if the html response content is binary: If(request.getResponseHeader("Content-Type")== "application/bint")  
 \* var request = \$.ajax({ uri: '/',  
 accepts: 'application/bint, text/xml', datafilter: function(data,type){  
 if(request.getResponseHeader("Content-Type")== "application/bint")  
 return parseBint(data); else  
 return parseXml();  
 },  
 success: function (data) { start(data);  
 }  
 });

**NEW QUESTION 35**

**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.)

catch(e)

debug

throw

try

finally

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

catch(e)

debug

throw

try

finally

try

catch(e)

finally

Explanation  
The fopen statement is put within the try clause. The catch(e) will catch a fopen error.  
The finally clause will be executed regardless of whether an error occurs in the try clause proceeding it

NEW QUESTION 38

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.)

Work Area

throw

new

throw

(

throw

,

throw

)

;

Work Area

throw

new

throw

(

throw

,

throw

)

;

throw

"Invalid"

200

Error

break

throw

"Invalid"

200

Error

break

throw

"Invalid"

200

Error

break

throw

"Invalid"

200

Error

break

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Example: throw new Error(200, "x equals zero"); Reference: throw Statement (JavaScript)

NEW QUESTION 42

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.)

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

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

\* addEventListener

The addEventListener() method attaches an event handler to the specified element.

In context of a worker, both self and this refer to the global scope. The worker can either add an event listener for the message event, or it can define the onmessage handler to listen for any messages sent by the parent thread.

\* postmessage

Pass a message to the worker.

\* close()

Terminating Workers

Workers are resource-intensive; they are OS-level threads. Therefore, you do not want to create a large number of worker threads, and you should terminate the web worker after it completes its work. Workers can terminate themselves, like this:

```
self.close();
```

Reference: HTML DOM addEventListener() Method; The Basics of Web Workers

#### NEW QUESTION 46

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

**Answer:** ADE

#### Explanation:

\* Example:

```
var myHelloWorker = new Worker('helloworkers.js');
```

You'll then start the worker (and thus a thread under Windows) by sending it a first message: myHelloWorker.postMessage();

Indeed, the Web Workers and the main page are communicating via messages. Those messages can be formed with normal strings or JSON objects.

\* (E) The Web Workers API makes it possible to execute a JavaScript file asynchronously and autonomously. A web worker is essentially a thread executing a JavaScript file.

\* (A, D) In the first implementations of web workers the browsers only allowed strings to be exchanged as messages. However, recent implementations allow for exchange of values or JSON objects.

Reference: HTML5 Web Workers

#### NEW QUESTION 51

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?

- ☐ A. 

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

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

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

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

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

**Answer:** A

#### Explanation:

\* this, in disable(this), refers to the clicked button.

\* The disabled attribute is a boolean attribute.

When present, it specifies that the <input> element should be disabled. A disabled input element is unusable and un-clickable.

The disabled attribute can be set to keep a user from using the <input> element until some other condition has been met (like selecting a checkbox, etc.). Then, a JavaScript could remove the disabled value, and make the <input> element usable.

Reference: HTML <input> disabled Attribute

#### NEW QUESTION 52

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

**Answer:** A

**Explanation:**

\* SVG stands for Scalable Vector Graphics SVG is used to define graphics for the Web SVG is a W3C recommendation

\* The HTML <svg> element (introduced in HTML5) is a container for SVG graphics. SVG has several methods for drawing paths, boxes, circles, text, and graphic images. Reference: HTML5 SVG

**NEW QUESTION 54**

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>

**Answer:** A

**Explanation:**

The <aside> tag defines some content aside from the content it is placed in. The aside content should be related to the surrounding content.

aside is now acceptable for secondary content when not nested within an article element. Reference: HTML <aside> Tag

**NEW QUESTION 58**

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

**Answer:** D

**Explanation:**

\* Object.prototype.constructor

Returns a reference to the Object function that created the instance's prototype. Note that the value of this property is a reference to the function itself, not a string containing the function's name. The value is only read-only for primitive values such as 1, true and "test".

\* The constructor property is created together with the function as a single property of func.prototype.

Reference: Object.prototype.constructor

**NEW QUESTION 61**

You are developing an HTML5 page that includes several paragraph elements. You have the following requirements:

Add a drop shadow that is one inch below the text in the paragraph Set the radius of the drop shadow to five pixels

You need to style the paragraphs to meet the requirements. Which CSS style should you use?

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

**Answer:** B

**Explanation:**

We set the second argument (vertical) to one inch (1in). Note

Syntax

text-shadow: h-shadow v-shadow blur color;

Note: The text-shadow property attaches one or more shadows to text. The property is a comma- separated list of shadows, each specified by 2 or 3 length values and an optional color. Omitted lengths are 0.

\* h-shadow

Required. The position of the horizontal shadow. Negative values are allowed

\* v-shadow

Required. The position of the vertical shadow. Negative values are allowed

\* blur

Optional. The blur distance

\* color

Optional. The color of the shadow.

**NEW QUESTION 62**

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>

**Answer:** A

**Explanation:**

The <section> tag defines sections in a document. Such as chapters, headers, footers, or any other sections of the document.

**NEW QUESTION 66**

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>

**Answer:** B

**Explanation:**

The <article> tag specifies independent, self-contained content.

An article should make sense on its own and it should be possible to distribute it independently from the rest of the site.

Potential sources for the <article> element: Forum post

Blog post

News story Comment

**NEW QUESTION 67**

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. <table>
- D. <section>

**Answer:** D

**Explanation:**

The <section> tag defines sections in a document. Such as chapters, headers, footers, or any other sections of the document.

**NEW QUESTION 70**

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.

Answer: AE

Explanation:

Fruit	Quantity	Price
Apples	48	\$0.29
Bananas	72	\$0.19
Watermelon	14	\$3.99

#### NEW QUESTION 73

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

Answer: C

Explanation:

\* [attribute] [target]

Selects all elements with a target attribute

\* :not(selector) not(p)

Selects every element that is not a <p> element Reference: CSS Selector Reference

#### NEW QUESTION 76

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;

Answer: A

Explanation:

\* Object.prototype.constructor

Returns a reference to the Object function that created the instance's prototype. Note that the value of this property is a reference to the function itself, not a string containing the function's name. The value is only read-only for primitive values such as 1, true and "test".

\* The constructor property is created together with the function as a single property of func.prototype.



Reference: Object.prototype.constructor

#### NEW QUESTION 80

DRAG DROP

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

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

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.)

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

- A. Mastered  
B. Not Mastered

Answer: A

#### Explanation:

Box 1:

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

Box 2:

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

Box 3:

```
languages.sort();
```

Box 4:

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

Note:

\* getElementsByTagName

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

\* Example:

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

```
var vals = [];
```

```
// Populate the array
for(var i = 0, l = lis.length; i < l; i++) vals.push(lis[i].innerHTML);
// Sort it vals.sort();
// Sometimes you gotta DESC if(sortDescending) vals.reverse();
// Change the list on the page for(var i = 0, l = lis.length; i < l; i++) lis[i].innerHTML = vals[i];
}
```

#### NEW QUESTION 84

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 }
```

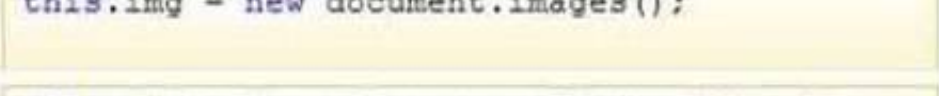
The web service returns a JSON object that contains two properties named Description and FileName.

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.)

	Answer Area
	
	
	
	
	
	
	
	

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: var img = document.createElement('img'); Box 2: img.alt = image.Description; img src = image.FileName; Box 3: return this.img; Note:

\* Image Object

The Image object represents an embedded image.

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

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

\* Image Object Properties include

alt, Sets or returns the value of the alt attribute of an image src, Sets or returns the value of the src attribute of an image



## NEW QUESTION 86

### 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, { [dropdown] [dropdown] });

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

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

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

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

- A. Mastered  
 B. Not Mastered

**Answer:** A

### Explanation:

Object Properties

The name:values pairs (in JavaScript objects) are called properties.

var person = {firstName:"John", lastName:"Doe", age:50, eyeColor:"blue"}; Reference: JavaScript Objects

## NEW QUESTION 91

### 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) {
        [dropdown]
    };

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



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

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

\* setData method (dataTransfer)  
 Specifies the data and its format for the current drag-and-drop operation.  
 \* getData method (dataTransfer)  
 Retrieves the specified formatted data from the current drag-and-drop operation.

**NEW QUESTION 93**

**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)

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

\* geolocation.watchPosition  
 watchPosition() - Returns the current position of the user and continues to return updated position as the user moves (like the GPS in a car).  
 \* position data include:  
 / coords.speed  
 The speed in meters per second  
 / coords.accuracy (incorrect answer) The accuracy of position  
 Etc.  
 \* The getCurrentPosition() (incorrect)  
 The getCurrentPosition() method returns an object if it is successful. The latitude, longitude and accuracy properties are always returned. The other properties below are returned if available. Reference: HTML5 Geolocation

**NEW QUESTION 95**

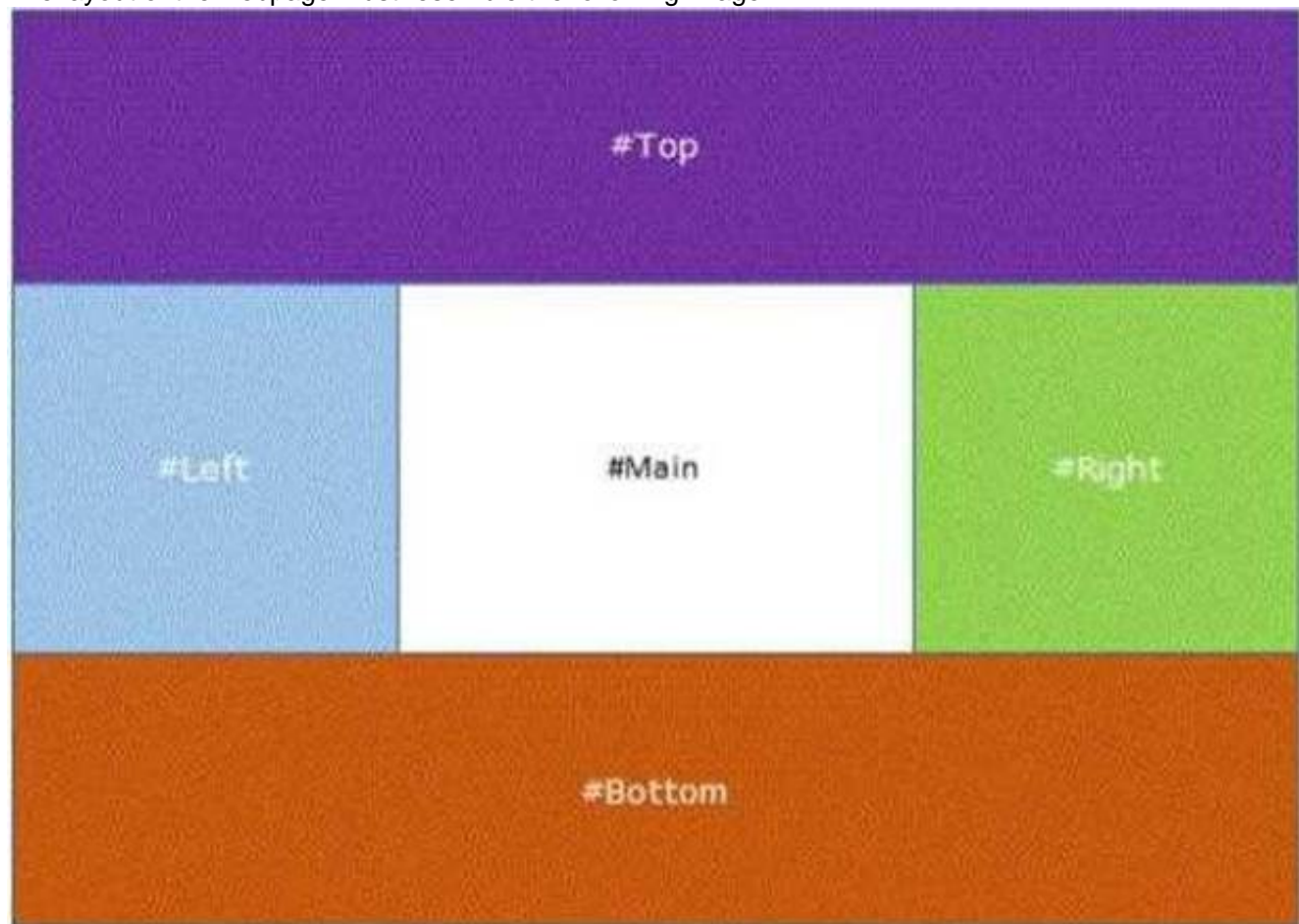
**HOTSPOT**

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>
```

```
<!DOCTYPE html>
<html>
<head>
<style></style>
</head>
<body>
<div id="top">
```

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;}

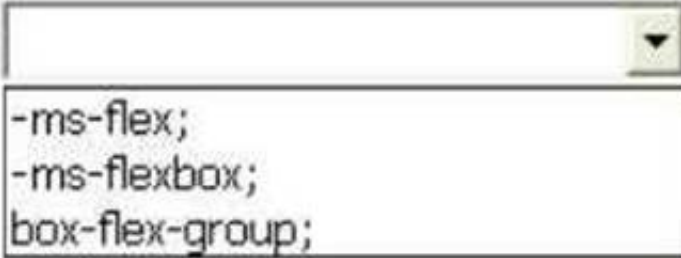
#content {display: 
           
           width: 100%;
}

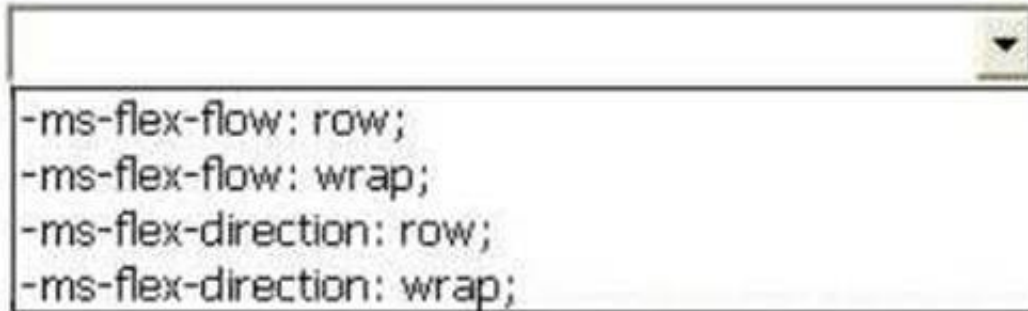
#content #left {width: 200px; height: 300px;}
#content #right {width: 200px; height: 300px;}

#content #main {}

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

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

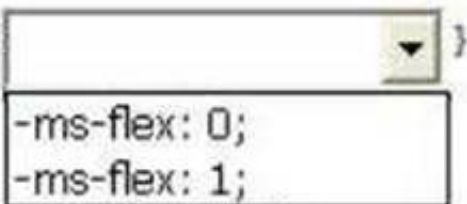
```
#content {display: 
```

```

```

```
width: 100%;
```

```
}
```

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

```
#content #main {
```

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\* -ms-flexbox

To enable flexbox layout, you must first create a flexbox container. Do this by setting the display property of an element to either "-ms-flexbox" (for a block-level flexbox container) or "-ms-inline- flexbox" (for an inline flexbox container).

\* -ms-flex-direction: row;

When creating a flexbox container, you can also set its orientation—that is, specify whether its children are displayed from right-to-left, left-to-right, top-to-bottom, or bottom-to-top.

\* -ms-flex

Specifies whether the width or height of a child element is flexible based on the space available in the object. This value also indicates the proportion of space available that is allocated to the child element.

Reference: Flexible box ("Flexbox") layout in Internet Explorer 10

**NEW QUESTION 96**

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 are

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\* contentType

contentType is the type of data you're sending.

We have to send the content-type of application/soap+xml as this is the only type that the web service allow.

\* type

We post a SOAP request.

\* dataType:

dataType is what you're expecting back from the server: json, html, text, xml, etc. jQuery will use this to figure out how to populate the success function's parameter.



NEW QUESTION 98  
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.');
```

The webpage also contains the following markup:

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

You need to ascertain how the webpage responds when the user enters characters and then clicks the add and divide buttons. For each statement in the table, select Yes if the action causes the webpage to behave as described. Select No if it does not. Make only one selection in each column.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 103

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 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();

Answer: C

Explanation:

With jQuery, you can hide and show HTML elements with the hide() and show() methods: Example  
\$("#hide").click(function(){  
\$("p").hide();  
});  
\$("#show").click(function(){  
\$("p").show();  
});  
Reference: jQuery Effects - Hide and Show

NEW QUESTION 108

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.

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

- A. Mastered
- B. Not Mastered

Answer: A

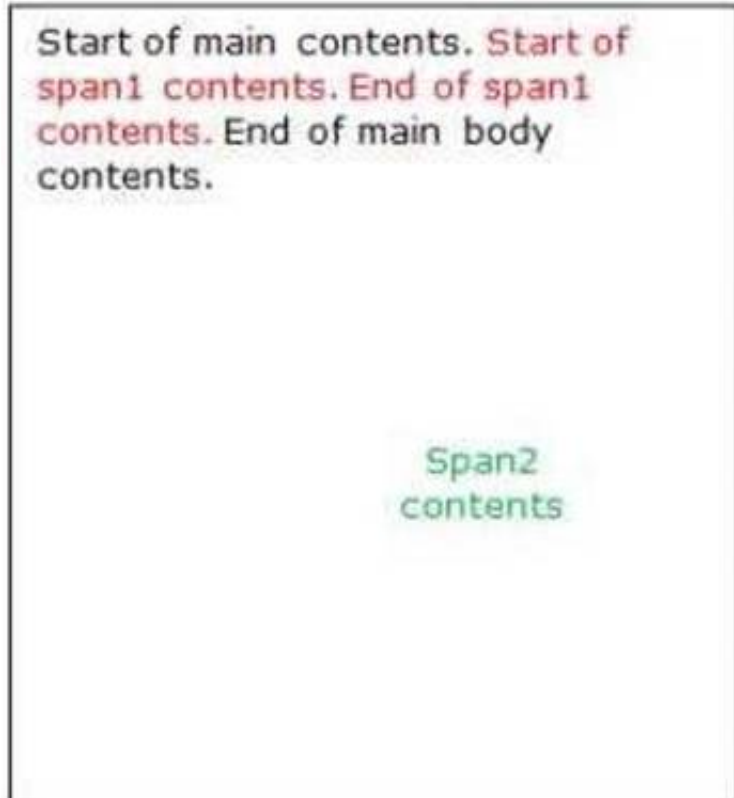
Explanation:

The variable customer is undefined, as it outside the scope of the function, at line alert(customer.name);

NEW QUESTION 113

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.
    <span id=span1> Start of span1 contents.
    <span id=span2> Span2 contents.</span>
    End of span1 contents.</span>
    End of main contents.
  </p>
</body>
</html>
```



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

#span1 {  ; color: red;}

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

#span2 {  ; top: 200px;

        z-index: 2
        float: right
        position: relative
        position: absolute

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

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

\* position: relative

The element is positioned relative to its normal position, so "left:20" adds 20 pixels to the element's LEFT position

\* position: absolute

The element is positioned relative to its first positioned (not static) ancestor element Reference: CSS position Property

**NEW QUESTION 117**

**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>
```

```
<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>
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

When readyState is 4 and status is 200, the response is ready:

Example xmlhttp.onreadystatechange=function()

```
{
if (xmlhttp.readyState==4 && xmlhttp.status==200)
{
document.getElementById("myDiv").innerHTML=xmlhttp.responseText;
}
}
```

Note:

\* readyState == 4

Holds the status of the XMLHttpRequest. Changes from 0 to 4: 0: request not initialized

1: server connection established 2: request received

3: processing request

4: request finished and response is ready

\* status==200 200: "OK"

404: Page not found

Reference: AJAX - The onreadystatechange Event

**NEW QUESTION 119**

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. `$.ajax({  
    url: "Services/WSAjax.aspx/GetPopulationCity?city='Boston'",  
    dataType: "text", type: "POST"  
});`
- ☐ B. `$.ajax({  
    url: "Services/WSAjax.aspx/GetPopulationCity",  
    dataType: "text", type: "SEND", data: { city: "Boston" }  
});`
- ☐ C. `$.ajax({  
    url: "Services/WSAjax.aspx/GetPopulationCity?city='Boston'",  
    dataType: "text", type: "SEND"  
});`
- ☐ D. `$.ajax({  
    url: "Services/WSAjax.aspx/GetPopulationCity",  
    dataType: "text", type: "POST", data: { city: "Boston" }  
});`

A. Option A

B. Option B

C. Option C

D. Option D

**Answer: D**

**Explanation:**

\* type:

We post a SOAP request.

\* data:

Data to be sent to the server.

The data option can contain either a query string of the form key1=value1&key2=value2, or an object of the form {key1: 'value1', key2: 'value2'}.

Reference: jQuery.ajax()

**NEW QUESTION 124**

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

**Answer:** D

**Explanation:**

\* url: /product/create This is the endproduct.

\* datatype:

The type of data that you're expecting back from the server.

\* contentType (default: 'application/x-www-form-urlencoded; charset=UTF-8') Reference: jQuery.ajax()

**NEW QUESTION 128**

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()

**Answer:** B

**Explanation:**

The readAsArrayBuffer method is used to read a File, Blob, MSStream into memory as an ArrayBuffer object.

Reference: FileReader.readAsArrayBuffer

**NEW QUESTION 131**

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"

**Answer:** B

**Explanation:**

Note:

\* The pattern attribute is supported in Internet Explorer 10, Firefox, Opera, and Chrome.

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

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

**NEW QUESTION 132**

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_]+$/.test(input.value))  
 input.value = "Invalid";`
- ☐ B. `if (!/^[^A-Za-z0-9_]/.test(input.value))  
 input.value = "Invalid";`
- ☐ C. `var regEx = new RegExp("^\\w");  
if (!input.value.match(regEx))  
 input.value = "Invalid";`
- ☐ D. `var regEx = "[\\w\\d]";  
if (!input.value.match(regEx))  
 input.value = "Invalid";`

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

**Answer:** A

**Explanation:**

Example:

Sometimes situations arise when user should fill a single or more than one fields with alphabet characters (A-Z or a-z) in a HTML form. You can write a JavaScript form validation script to check whether the required field(s) in the HTML form contains only letters. –

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

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

To get a string contains only letters (both uppercase or lowercase) we use a regular expression (/^[A-Za-z]+\$/) which allows only letters. Next the match() method of string object is used to match the said regular expression against the input value.

Reference: JavaScript : HTML Form validation - checking for all letters

**NEW QUESTION 136**

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

**Answer:** BD

**Explanation:**

Note:

\* select option:selected

:selected Selector

Description: Selects all elements that are selected.

**NEW QUESTION 141**

**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.)



this.loanAmount += 1000;

this.loanAmount = 100;

loanAmount = 100;

loanAmount += 1000;

myApp.loanAmount

loanAmount

Answer Area

```

var myApp = {};
(function () {

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

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

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

myApp.display(

```

- A. Mastered  
 B. Not Mastered

Answer: A

#### Explanation:

```

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);

```

#### NEW QUESTION 144

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 />

Answer: A

#### Explanation:

\* Input Type: password

<input type="password"> defines a password field.

The characters in a password field are masked (shown as asterisks or circles).

\* The autocomplete attribute specifies whether or not an input field should have autocomplete enabled.

The autocomplete attribute works with the following <input> types: text, search, url, tel, email, password, datepickers, range, and color.

Reference: HTML Input Types ; HTML <input> autocomplete Attribute

#### NEW QUESTION 145

##### 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)

- A. Mastered
- B. Not Mastered

**Answer:** A

##### Explanation:

\* What is the difference between call and apply?

apply lets you invoke the function with arguments as an array; call requires the parameters be listed explicitly.

Pseudo syntax: theFunction.apply(valueForThis, arrayOfArgs) theFunction.call(valueForThis, arg1, arg2, ...)

Reference: What is the difference between call and apply?

#### NEW QUESTION 147

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

**Answer:** BC

##### Explanation:

Note:

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

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

#### NEW QUESTION 150

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?

- ☐ A. 

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

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

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

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

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

**Answer:** D

**Explanation:**

Increase the radius (the r property) of the circle (not the graphic) by a factor 1.5. Incorrect: CurrentScale is used for zooming. Reference: The HTML <svg> Element

**NEW QUESTION 155**

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");`

**Answer:** C

**Explanation:**

The :first-of-type selector matches every element that is the first child, of a particular type, of its parent. Reference: CSS3 :first-of-type Selector

**NEW QUESTION 156**

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

**Answer: B**

**Explanation:**

As an image will be returned the response type must be blob, not document. Similarly, this.response must be used not this.responseText.  
 Reference: createObjectURL method

**NEW QUESTION 157**

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;
    }
    return true;
};
```

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

**Answer:** AB

**Explanation:**

\* parseInt

The parseInt() function parses a string and returns an integer. Syntax: parseInt(string,radix)

string Required. The string to be parsed

radix Optional. A number (from 2 to 36) that represents the numeral system to be used.

\* The isNaN() function determines whether a value is an illegal number (Not-a-Number). This function returns true if the value is NaN, and false if not.

Reference: JavaScript parseInt() Function; JavaScript isNaN() Function

**NEW QUESTION 161**

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)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\* addEventListener mousemove

Use the element.addEventListener() method to attach an event handler to a specified element. onmousemove : Fires when the mouse pointer is moving while it is over an element

\* The clientX property returns the horizontal coordinate (according to the client area) of the mouse pointer when a mouse event was triggered.

Example:

Output the coordinates of the mouse pointer when an mouse event has occurred: var x = event.clientX; // Get the horizontal coordinate

var y = event.clientY; // Get the vertical coordinate var coor = "X coords: " + x + ", Y coords: " + y;

The result of coor could be: X coords: 142, Y coords: 99

Reference: HTML DOM addEventListener() Method; onmousemove Event; MouseEvent clientX Property

**NEW QUESTION 163**

**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
  {
    [Drop-down]
  }

  #box2
  {
    width: 6em;
    height: 4em;
    position: absolute;
    [Drop-down]
    [Drop-down]
  }
</style>
```



```
<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>
```

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

- \* border: 1px solid #f00;  
 a red border 1 pixel thick.
- \* background-image: linear-gradient(to bottom, green,black); Linear Gradients (goes down/up/left/right/diagonally).  
 Starts at the top with green and goes to bottom with black.
- \* margin: 10px 10px 10px 10px;  
 The CSS margin properties define the space around elements.  
 The top, right, bottom, and left margin can be changed independently using separate properties. Incorrect:
- \* border-color: red;  
 will not display any border
- \* Radial Gradients (defined by their center).

**NEW QUESTION 166**

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

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

You need to call the click event for the addOneItem button a determined number of times when the user clicks the addBoxOfItems button.  
 Which code segment should you add to the webpage?

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

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

**Answer:** D

**Explanation:**

jQuery provides a way to trigger the event handlers bound to an element without any user interaction via the .trigger() method.

jQuery's event handling system is a layer on top of native browser events. When an event handler is added using .on( "click", function() {...} ), it can be triggered using jQuery's .trigger( "click" ) because jQuery stores a reference to that handler when it is originally added. Additionally, it will trigger the JavaScript inside the onclick attribute.

Reference: Triggering Event Handlers

**NEW QUESTION 168**

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

`<span id="myTextSpan" class="myStyle">Hello, World!</span>` You need to use inline CSS styling to format the text with Arial font. Which code segment should you use?

- ☐ A. `<style>  
 .myStyle  
 {  
 font-style: Arial;  
 }  
</style>`
- ☐ B. `<span id="myTextSpan" class="myStyle" style="font-family: Arial">Hello, World!</span>`
- ☐ C. `<span id="myTextSpan" class="myStyle" style="font-style: Arial">Hello, World!</span>`
- ☐ D. `<style>  
 .myStyle  
 {  
 font-family: Arial;  
 }  
</style>`

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

**Answer:** B

#### Explanation:

The font-family property specifies the font for an element. Incorrect:

not A, not D: This is not inline CSS.

not C: With font style we define style only:

Syntax: font-style: normal|italic|oblique|initial|inherit; Reference: CSS font-family Property

#### NEW QUESTION 171

You create the following JavaScript code:

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

You have the following requirements:

You must invoke a function that displays the vehicle information within the following HTML element:

<div id="display"x/div>

The output of the function must appear on the webpage as follows: Vehicle Color is silver

Stay safe!

Vehicle TransmissionType is manual Big machine!

You need to invoke the JavaScript function to display the required output in the HTML element. Which two code segments should you use? (Each correct answer presents a complete solution. Choose two.)

- ☐ A. `var mySportsCar = new myApplication.Vehicle('display', 'manual', 4, 'silver', 4);`  
`mySportsCar.Describe();`
- ☐ B. `var myDumpTruck = new myApplication.Vehicle('display', 'silver', 10, 'manual', 2);`  
`myDumpTruck.Describe();`
- ☐ C. `var myBigRig = new myApplication.Vehicle('display', 'silver', 2, 'manual', 16);`  
`myBigRig.Describe();`
- ☐ D. `var myMotorcycle = new myApplication.Vehicle('display', 'blue', 2, 'manual', 2);`  
`myMotorcycle.Describe();`
- ☐ E. `var myMotorhome = new myApplication.Vehicle('display', 'silver', 3, 'manual', 10);`  
`myMotorhome.Describe();`

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

**Answer:** CE

#### Explanation:

The second argument should be 'silver'.

The third argument should be a number less than 4.



**NEW QUESTION 176**

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

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

You need to handle the click event when a user clicks the showDialog button. Which code segment should you insert at line 02?

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

**Answer:** D

**Explanation:**

Syntax: .on( events [, selector ] [, data ], handler )

\* Example:

```
$(function() {
```

```
$(document).on('click', '.get-widgets', function (e) { Reference: jQuery .on()
```

**NEW QUESTION 177**

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

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

The application must:

Display the number of orders processed and the number of orders remaining Update the display for every 25th record processed

You need to develop the application to meet these requirements. Which line of code should you insert at line 04?

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

**Answer:** A

**Explanation:**

%

(Modulus) Computes the integer remainder of dividing 2 numbers. Incorrect:

>> (Sign-propagating right shift) Shifts the first operand in binary representation the number of bits to the right specified in the second operand, discarding bits shifted off.

<< (Left shift) Shifts its first operand in binary representation the number of bits to the left specified in the second operand, shifting in zeros from the right.

Reference: JavaScript Operators

**NEW QUESTION 180**

You are developing an application to track project management for your company. The status of the project is stored in a variable named percentComplete. The method must execute only when percentComplete is equal to the numeric value 100. You need to develop the application to meet the requirement. Which code segment should you use?

```
Ⓐ A.  if (percentComplete = 100 || percentComplete != 100) {  
    ...  
}  
  
Ⓑ B.  if (percentComplete = 100 && percentComplete != 100) {  
    ...  
}  
  
Ⓒ C.  if (percentComplete % 100) {  
    ...  
}  
  
Ⓓ D.  if (percentComplete === 100) {  
    ...  
}  
  
Ⓔ E.  if (percentComplete = 100) {  
    ...  
}
```

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

**Answer:** D

**Explanation:**

===: This is “strict” or “identical” equality.

Reference: JavaScript Triple Equals Operator vs Double Equals Operator ( === vs == )

**NEW QUESTION 185**

You have a webpage that includes the following markup and code:

```
<!DOCTYPE html>  
<html>  
  <head>  
    <script>  
      function start() {  
        var counter = 10;  
        var fun = function () {  
          counter = 20;  
        }  
        return counter;  
      }  
    </script>  
  </head>  
  <body>  
    <button id="submit" onclick="alert(start());">Start</button>  
  </body>  
</html>
```

You need to troubleshoot the code by clicking the Submit button. Which value will be displayed?

- A. 10  
B. 20  
C. Undefined  
D. Runtime error

**Answer:** A

**Explanation:**

\* The outermost assignment, counter = 10; will decide the output that is displayed.

\* Local variables have local scope: They can only be accessed within the function. Example

```
// code here can not use carName function myFunction() {
```

```
var carName = "Volvo";
```

```
// code here can use carName
```

```
}
```

\* A variable declared outside a function, becomes GLOBAL.

A global variable has global scope: All scripts and functions on a web page can access it.

Example

```
var carName = "Volvo";
```

```
// code here can use carName function myFunction() {
```

```
// code here can use carName
```

```
}
```

Reference: JavaScript Scope

**NEW QUESTION 190**

You are creating a JavaScript object that represents a customer.

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

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

Which code segment should you use?

- ☐ A. 

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

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

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

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

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

**Answer: D**

**Explanation:**

\* Object.prototype.constructor

Returns a reference to the Object function that created the instance's prototype. Note that the value of this property is a reference to the function itself, not a string containing the function's name. The value is only read-only for primitive values such as 1, true and "test".

\* The constructor property is created together with the function as a single property of func.prototype.

Reference: Object.prototype.constructor

**NEW QUESTION 193**

You develop an HTML5 chat application.

You need to provide real-time updates to the messages that users post in the chat application. What should you do?

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

**Answer: C**

**Explanation:**

Web Sockets is a next-generation bidirectional communication technology for web applications which operates over a single socket and is exposed via a JavaScript interface in HTML 5 compliant browsers.

Once you get a Web Socket connection with the web server, you can send data from browser to server by calling a send() method, and receive data from server to browser by an onmessage event handler.

Reference: HTML5 - WebSockets Tutorial

**NEW QUESTION 197**

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

Users can enter data that can result in cross-site scripting (XSS) attacks. You need to ensure that email input is as secure as possible.

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

- A. Remove all nonalphanumeric characters before submitting data.



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

Answer: BD

Explanation:

B: The <input type="email"> is used for input fields that should contain an e-mail address. Depending on browser support, the e-mail address can be automatically validated when submitted.  
Some smartphones recognize the email type, and adds ".com" to the keyboard to match email input. D: JQuery can be used to validate email addresses.  
Reference: HTML Input Types; Email Validation Using jQuery Codes

NEW QUESTION 198

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.)

Actions

\$getJSON(jsonFruit, function (data) {

\$("#fruitTable"). after(

"<tr><td>" + key + "</td><td>" + val +

"</td></tr>");

var data = \$.parseJSON(jsonFruit);

});

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

\$('#fruitTable'). append("<tr><td>" + key +

"</td><td>" + val + "</td></tr>");

data. push (key, val);

jsonFruit. push(key, val);

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

Answer Area

>

<

⤴

⤵

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

**Actions**

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

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

var data = \$.parseJSON(jsonFruit);

});

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

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

data. push (key, val);

jsonFruit. push(key, val);

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

**Answer Area**

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

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

});

#### NEW QUESTION 199

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:

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

Answer: C

#### NEW QUESTION 204

DRAG DROP

You need to write a jQuery function to consume a file named Orders.xml. You write the following code.

```
$. Target 1 ({
  type: "GET"
  url: "orders.xml",
  Target 2: Target 3,
  success: function (xml) {
    alert ('XML' processed successfully.)
  }
});
```

How should you complete the code? To answer, drag the appropriate code elements to the correct targets in the answer are a. Each code element 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.

Answer Area

Code Elements

ajax

callback

contentType

datatype

function

JSON

POST

xml

Target 1:

Target 2:

Target 3:

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

References:  
<https://github.com/processing/p5.js/wiki/Loading-external-files:-AJAX,-XML,-JSON>

NEW QUESTION 205

HOTSPOT  
You have the following code:

```
var var1 = parseInt( '12', 10);  
var var2 = parseInt( 'aaa', 10);  
var var3 = parseInt( '12px', 10);  
var var4 = parseInt( 'foo2', 10);  
var var5 = parseInt( '12a5', 10);
```

You need to identify the correct value of each variable.  
What should you identify? To answer, drag the appropriate values to the correct variables in the answer are

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

References: [http://www.w3schools.com/jsref/jsref\\_parseint.asp](http://www.w3schools.com/jsref/jsref_parseint.asp)

NEW QUESTION 206

Which CSS3 code fragment uses a pseudo-element?

- A. p : first-letter {font-weight: bold;}  
B. div>p {font-weight: bold;}  
C. first-letter {font-weight: bold;}  
D. div+p {font-weight: bold;}



**Answer:** A

**Explanation:**

References:

<http://www.html5code.nl/css3-tutorials/css3-tutorial-css3-selectors/>

#### NEW QUESTION 211

You are styling the following DIV tag on a page by using CSS3.

```
<div class= "Box"/>
```

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

Which two CSS3 styles will achieve the goal? (Each correct answer presents a complete solution. Choose two.)

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

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

**Answer:** AD

#### NEW QUESTION 212

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. tr : first-line, tr :last-child
- B. tr [line |=0, 1, 3]
- C. tr: nth-child (0) : in-range, tr: nth-child (3) : in-range
- D. tr: nth-child(3n+1) {background-color : blue;}

**Answer: D**

#### NEW QUESTION 215

You are developing an application in HTML5. You have the following code.

```
function NewOrder (orderId, orderDate) {
  this.orderId = orderId;
  this.orderDate = orderDate;
}
```

You need to add an additional property to the function definition. Which line of code should you use?

- A. NewOrder ["newProperty"] = "newProperty"
- B. NewOrde
- C. prototyp
- D. newProperty = "newProperty"
- E. this.NewOrde
- F. newProperty = "newProperty"
- G. NewOrde
- H. newProperty = "newProperty"

**Answer: C**

#### Explanation:

References: [http://www.w3schools.com/js/js\\_object\\_prototypes.asp](http://www.w3schools.com/js/js_object_prototypes.asp)

#### NEW QUESTION 217

You are developing an application that consumes an external web service. The web service 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.

The application has two JavaScript variables named newStockRate and stockRate to store the latest and previous stock rates, respectively.

Users must be able to compare the old stock rate with the new stock rate.

You need to ensure that newStockRate and stockRate retain their values for comparison. Which code segment should you use?

A. var newStockRate;

```
function getResults() {
var stockRate;

$.ajax ( {
    async: true,
    cache: true,
    type: 'POST',
    url: 'StockRates.aspx/GetRate',
    data: { 'StockName': stockName },
    datatype: 'json',
    success: function (result) {
        newStockrate = result;
    }, error: function (xhr, ajaxOptions, thrownError) {alert(thrownError) }
    });
ShowRate(newStockrate);
}

function ShowRate(pStockRate) {
    alert(pStockrate + " " + stockRate);
}
```

B. function getResults () {

```
var stockRate;

var newStockRate;

$.ajax ( {
    async: true,
    cache: true,
    type: 'POST',
    url: 'StockRates.aspx/GetRate',
    data: { 'StockName': stockName },
    datatype: 'json',
    success: function (result) {
        stockrate = result;
    }, error: function (xhr, ajaxOptions, thrownError) {alert(thrownError) }
    });
ShowRate(pStockRate);
}
function ShowRate(pStockRate) {
    alert(pStockrate + " " + stockRate);
}
```



C. var newStockRate;

function getResults () {

var StockRate;

\$.ajax ( {

  async: true,

  cache: true,

  type: 'POST',

  url: 'StockRates.aspx/GetRate',

  data: { 'StockName': stockName },

  datatype: 'json',

  success: function (result) {

    stockrate = result;

  }, error: function (xhr, ajaxOptions, thrownError) {alert(thrownError) }

  } );

ShowRate(newStockRate);

}

function ShowRate(pStockRate) {

  alert(pStockrate + " " + stockRate);

}

D. var StockRate;

function getResults () {

var newStockRate;

\$.ajax ( {

  async: true,

  cache: true,

  type: 'POST',

  url: 'StockRates.aspx/GetRate',

  data: { 'StockName': stockName },

  datatype: 'json',

  success: function (result) {

    stockrate = result;

  }, error: function (xhr, ajaxOptions, thrownError) {alert(thrownError) }

  } );

ShowRate(newStockRate);

stockRate = newStockRate;

}

function ShowRate(pStockRate) {

  alert(pStockrate + " " + stockRate);}

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

**Answer: C**

#### NEW QUESTION 219

You need to write a self-executing anonymous function in JavaScript. Which code snippet should you include in the function?

- A. (function () {...});
- B. (function anon() {...}) ();
- C. (function anon() {...});
- D. (function () {...}) ();

Answer: D

Explanation:

References:

<http://esbueno.noahstokes.com/post/77292606977/self-executing-anonymous-functions-or-how-to- write>

NEW QUESTION 223

DRAG DROP

You have the following markup:

```
<style>
  .flex1 {
    Target 1 : Target 2;
  }
  .flex2 {
    Target 3 : Target 4;
  }
</style>
<div style="display:flex;height:300px;background-color:red">
  <div class="flex1" style="background-color:yellow;border:dotted">
  </div>
  <div class="flex2" style="background-color:grey;border:dotted">
  </div>
</div>
```

You need to complete the styles to meet the following requirements:

How should you complete the styles? To answer, drag the appropriate code elements to the correct targets in the answer area. Each code element 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.

Code elements

flex

width

1

2

3

Answer Area

Target 1:

Target 2:

Target 3:

Target 4:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Target 1: Flex

Target 2: 1

Target 3: Flex

Target 4: 2

<https://css-tricks.com/snippets/css/a-guide-to-flexbox/>

NEW QUESTION 224

HOTSPOT

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

```
01 <style>
02 .transition_style
03 {
04     font-size:15px;
05     font-weight:normal;
06     width:50px;
07     height:40px;
08     background:orange;
09     color:#ffffff;
10     padding:10px;
11     margin-left:auto;
12     border-radius:5px;
13     transition-property:width,height,transform,background,font-size,opacity;
14     transition-duration:1s,1s,1s,1s,1s,1s;
15 }
16 .transition_style:hover
17 {
18     font-size:30px;
19     font-weight:bolder;
20     width:100px;
21     height:80px;
22     margin-left:0px;
23     transform:rotateX(360deg);
24     background:red;
25 }
26 </style>
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Answer Area

Statement	Yes	No
Margin-left will move gradually from right to left.	<input type="radio"/>	<input type="radio"/>
The background color will transition gradually from orange to red.	<input type="radio"/>	<input type="radio"/>
The animation effect will be the same if you replace lines 13 and 14 with the following code:  transition: all 1s linear;	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

No  
Yes  
No  
[https://www.w3schools.com/cssref/pr\\_margin-left.asp](https://www.w3schools.com/cssref/pr_margin-left.asp) <https://css-tricks.com/almanac/properties/t/transition/>  
[https://www.w3schools.com/cssref/css3\\_pr\\_transition.asp](https://www.w3schools.com/cssref/css3_pr_transition.asp)

NEW QUESTION 225

You are developing a web application in HTML. You have the following HTML code.

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

You need to ensure that the div footer contains the text "All rights reserved". Which line of code should you use?

- A. document("footer") = "All rights reserved";
- B. document("footer").innerHTML = "All rights reserved";
- C. \$(".footer").value = "All rights reserved";
- D. \$("#footer").html("All rights reserved");

Answer: B

Explanation:

[https://www.codecademy.com/en/forum\\_questions/557ea03cd3292f72d10006bf](https://www.codecademy.com/en/forum_questions/557ea03cd3292f72d10006bf)

NEW QUESTION 230

You are creating a custom object as described by the following code. Line numbers are included for reference only.



```
01  function square(side) {
02      this.side = side;
03      this.perimeter = perimeter;
04  }
05
```

You need to implement the perimeter method. Which code segment should you insert at line 05?

- A. function perimeter () {return 4 \* side;}
- B. function perimeter () {return 4 \* this.side;}
- C. function perimeter () {return 4 \* me.side;}
- D. function perimeter (obj) {return 4 \* obj.side;}

**Answer:** B

**Explanation:**

<http://creative-coding.decontextualize.com/objects-with-methods/>

### NEW QUESTION 233

DRAG DROP

You develop code in JavaScript. The code calls a functions named fn1. Sometimes, fn1 throws a RangeError on a SyntaxError error.

You need to create code to meet the following requirements: Catch the error.

Call the catchRangeError function if RangeError is thrown. Call the catchSyntaxError function if SyntaxError is thrown.

Develop the solution by selecting and arranging the required code blocks in the correct order. You may not need all of the code blocks.

#### Code blocks

```
try {
} catch (error) {
}
fn1();
if (error.name === 'RangeError') {
catchSyntaxError();
else if (error.name === 'SyntaxError') {
catchRangeError();
}
```

#### Answer Area



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
try { fn1();
} catch(error) {
if (error.name === 'RangeError') { catchRangeError();}
else if (error.name === 'SyntaxError') { catchSyntaxError();}
}
```

### NEW QUESTION 236

You are developing an application in HTML5. The application contains the following HTML markup.

```
<div>
  <h1>Resources</h1>
  <a href="http://contoso.com/people.aspx">People</a>
  <a href="http://contoso.com/orgProducts.aspx">Products</a>
  <a href="http://wiki.contoso.org">Resources</a>
  ...
</div>
```

You need to ensure that all of the links referencing domain names ending in .org are displayed in red text. What should you use?

- A. a JSON parse function
- B. a CSS attribute selector
- C. a CSS pseudo-element
- D. a JSON stringify function.

**Answer:** B

#### NEW QUESTION 238

You have the following HTML markup

```
<div id="container">
  <p>Welcome</p>
  <p>to this site</p>
</div>
```

You need to create a style so that the text “to this site” is displayed in blue. Which markup should you use?

- A. p:last-of-type {Color:blue;}
- B. #container.p:last-of-type { Color:blue;}
- C. #container.p:nth-child(1) { Color:blue;}

**Answer:** C

#### NEW QUESTION 243

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? (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 intensive video compression
- D. A function that stores large amounts of data to local storage

**Answer:** BC

#### NEW QUESTION 247

A web application has a web page that contains an HTML5 CANVAS element. A web extracts messages from the CANVAS element. You need to ensure that the web worker can read the message sent by the web page.

Which three object types can you use?

- A. JavaScript
- B. DOM
- C. parent
- D. Window
- E. string
- F. JSON

**Answer:** AEF

#### Explanation:

References: <https://www.html5rocks.com/en/tutorials/workers/basics/>

#### NEW QUESTION 250

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

```
Message: <input type="text" id="message" /><br />
<input type="button" id="postMessage" value="post" onclick="postMessage();" />
```

You also have the following JavaScript code:

```
var socket = new WebSocket("ws://myserver");
```

You need to post messages by using the HTML5 WebSocket API. Which code segment should you use?

- A. socket.onmessage(\$("#message").val());
- B. socket.send(\$("#message").val());
- C. var msg = (\$("#message").val());\$.post(socket, function (msg) { ... });
- D. var msg = (\$("#message").val());\$.post(socket.onmessage, function (msg) { ... });

**Answer:** B

#### Explanation:

References: [https://www.tutorialspoint.com/html5/html5\\_websocket.htm](https://www.tutorialspoint.com/html5/html5_websocket.htm)

#### NEW QUESTION 253

You display a long text content in a div.

You need to prevent the vertical scrollbar of the browser from being displayed. Which CSS element should you use?

- A. @page
- B. @keyframes
- C. overflow-x
- D. overflow-y

Answer: D

Explanation:

References: [https://www.w3schools.com/cssref/css3\\_pr\\_overflow-y.asp](https://www.w3schools.com/cssref/css3_pr_overflow-y.asp)

NEW QUESTION 255

HOTSPOT

You are developing an application in HTML5. You have the following HTML markup.

```
<div id="div1">
  <div id="div2">
    <div id="div3" onclick="Validate1()">
      <label id="userNameLabel" for="userName">User Name:</label>
      <input type="text" id="userName" onclick="Validate2()" />
    </div>
  </div>
</div>
```

You have the following JavaScript code.

```
$("#userName").click(function (event) {
  event.stopPropagation();
});
```

Use the drop-down lists to select the answer choice that completes each statement.

[answer choice] will be called when the user clicks the userName text box.

▼

event.stopPropagation
Validate1
Validate2

[answer choice] will be called when the user clicks the userNameLabel label.

▼

event.stopPropagation
Validate1
Validate2

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

[answer choice] will be called when the user clicks the userName text box.

▼

event.stopPropagation
Validate1
Validate2

[answer choice] will be called when the user clicks the userNameLabel label.

▼

event.stopPropagation
Validate1
Validate2

NEW QUESTION 260

DRAG DROP

You have the following markup.

```
<input type="button" value="oneButton" Target1=Target2 (Target3.Target4);" />
```

You need to ensure that when the button is clicked, a message appears that displays the value of the button. How should you complete the code? To answer, drag the appropriate code elements to the correct targets in the answer area. Each code element 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.

Code Elements

alert

innerHTML

onblur

onclick

oneButton

this

value

Answer Area

Target 1:

Target 2:

Target 3:

Target 4:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Target 1:

onclick

Target 2:

alert

Target 3:

this

Target 4:

value

NEW QUESTION 264

DRAG DROP

You have a function named `getContent` that returns a string. Sometimes, the function throws an exception. You need to develop a method named `writeContent`. `writeContent` must generate an HTML page that contains the following:

- the text "Welcome"
- the content returned by the `getContent` method or the exception message of an exception thrown by the `getContent` method
- the text "Bye"

In which order should you arrange the code blocks to develop the solution? To answer, move all code blocks from the list of code blocks to the answer area and arrange them in the correct order.

Code segments

```
document.write("getContent throws an  
exception : " + e.message + "<br/>");  
}
```

```
catch (e) {
```

```
finally {
```

```
try {  
document.write("Welcome<br/>");
```

```
document.write(getContent());  
}
```

```
document.write("<br/>Bye");  
}
```

Answer Area



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```
try {  
document.write("Welcome<br/>");
```

```
document.write(getContent());  
}
```

```
catch (e) {
```

```
document.write("getContent throws an  
exception : " + e.message + "<br/>");  
}
```

```
finally {
```

```
document.write("<br/>Bye");  
}
```

NEW QUESTION 268

DRAG DROP

You are developing a web application that consumes data from a server named sample-host. The application must:

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 or locations. 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.)

## Code Segments

```
var host = "websocket://sample-host/echo";
var host = "ws://sample-host/echo";
var host = "http://sample-host/echo.svc";
```

## Segments

```
socket.onopen
socket.open
open.socket
```

## Answer Area

### Code Segment

```
socket = new WebSocket(host);
```

### Segment

```
= function (openEvent) {
```

```
document.getElementById("serverStatus").innerHTML =
'WebSocket Status:: Socket Open';
```

- A. Mastered
- B. Not Mastered

**Answer:** A

### Explanation:

Code Segment: var host ="ws://sample-host/echo"; Segment:socket.onopen

References: <https://docs.microsoft.com/en-us/microsoft-edge/dev-guide/networking-and-connectivity/websocket>

## NEW QUESTION 271

You would like to create a web application by using HTML5, JavaScript, and CSS3. Which of the following Visual Studio 2012 editions can you use? (Choose all that apply.)

- A. Visual Studio Professional 2012
- B. Visual Studio Premium 2012
- C. Visual Studio Ultimate 2012
- D. Visual Studio Express 2012 for Web
- E. Visual Studio Express 2012 for Windows 8

**Answer:** ABCD

### Explanation:

References:

[http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

## NEW QUESTION 274

You would like to create a Windows 8 application by using Blend and HTML5, JavaScript, and CSS3. Which feature of Blend enables you to pause an application when it reaches a desired state so you can set the style rules for the page and its controls while in this state? (Choose all that apply.)

- A. Assets panel
- B. Projects panel
- C. Visual Design
- D. Interactive mode

**Answer:** CD

### Explanation:

References:

[http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

## NEW QUESTION 279

On which panel can you see a hierarchically structured view of the DOM?

- A. Live DOM
- B. Projects
- C. Assets
- D. Device

**Answer:** A

### Explanation:

References: [http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

## NEW QUESTION 283



You are creating a new Windows 8 application, and you want to set up TDD for your JavaScript code. Which testing framework will you use

- A. QUnit
- B. QUnit-Metro
- C. Microsoft Test
- D. NUnit

Answer: B

Explanation:

References: [http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

NEW QUESTION 285

DRAG DROP

You have a page that uses HTML5 and CSS3. The page contains the following markup.

```
<style>
  [href^="ml"] {
    color: yellow;
  }
  [href$=ml"] {
    color: red;
  }
  [class*="nav"] a {
    background-color: aqua;
  }
  [class~="nav"] a {
    background-color: fuchsia;
  }
</style>
<nav id="mainmenu" class="page-nav">
  <div id="navlist" class="container">
    <a href="index.html">Home</a>
    <a href="register.html">Register</a>
  </div>
</nav>
```

What are the font color and the background color of the links when the page renders? To answer, drag the appropriate colors to the correct locations. Each color 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.  
NOTE: Each correct selection is worth one point.

Colors

Aqua

Fuchsia

Red

Yellow

Answer Area

Link font color:Color

Link background color:Color

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

### Colors

Aqua

Fuchsia

Red

Yellow

### Answer Area

Link font color:

Yellow

Link background color:

Fuchsia

Explanation:

Yellow

Link background color: Fuchsia References:

Link font color:

#### NEW QUESTION 286

You have the following markup.

```
<div id="yellow" style="background-color:yellow">My Yellow Content</div>

<div id="blue" style="background-color:blue">My Blue Content</div>

<div id="red" style="background-color:red">My Red Content</div>
```

You need to change the markup programmatically to display as follows:



Which line of code should you use?

- A. `document.getElementById("blue").style.display = "none"`
- B. `$("#blue").css("visibility", "collapse");`
- C. `document.getElementById("blue").style.visibility = "hidden"`
- D. `$("#blue").css("display", "hidden");`

**Answer:** A

#### NEW QUESTION 288

You have the following CSS markup that renders a red rectangle on a webpage.

```
#element1 {
    background: red;
    margin: 50px;
    padding: 50px;
    width: 200px;
    height: 150px;
    box-sizing: border-box;
}
```

How large will the red rectangle appear when it renders on the page?

- A. width 200px, height 150 px
- B. width 400px, height 350 px
- C. width 100px, height 50 px
- D. width 300px, height 250 px

**Answer:** A

**Explanation:**

References: [https://www.w3schools.com/CSSref/css3\\_pr\\_box-sizing.asp](https://www.w3schools.com/CSSref/css3_pr_box-sizing.asp)

#### NEW QUESTION 289

You are creating a page that uses JavaScript code.

You need to ensure that if a function named function1 throws a RangeError error, a function named function2 executes. For any other type of error, a function name function3 must execute.

Which JavaScript code should you use?

A

```
try {  
    function1();  
}  
catch(e) {  
    if (e instanceof rangeError) {  
        function2();  
    } else {  
        function3();  
    }  
}
```

B

```
try {  
    function1();  
}  
catch (e) {  
    function2();  
}  
finally {  
    if (e instanceof RangeError) {  
        function3();  
    }  
}
```

C

```
try {  
    function1();  
}  
catch (e) {  
    function3();  
}  
finally {  
    if (e instanceof RangeError) {  
        function2();  
    }  
}
```

D

```
try {  
    function1();  
}  
catch (e) {  
    if (e instanceof RangeError) {  
        function3();  
    } else {  
        function2();  
    }  
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: A

### NEW QUESTION 293

#### HOTSPOT

You have the following markup.



```
<style>
  div p.car {color: blue}
  #sidebar p {color: yellow}
  .Boat {color: red}
</style>

<div id="sidebar">
  <p class="car">Car</p>
  <p class="Boat">Boat</p>
  <p style="color:violet">Plane</p>
</div>
```

You need to identify in which color each value will be displayed.  
 Which color should you identify? To answer, select that appropriate options in the answer are a.  
 NOTE: Each correct selection is worth one point.

## Answer Area

● ● ● ● ●

Boat:
 

▼

Blue  
Red  
Violet  
Yellow

Car:
 

▼

Blue  
Red  
Violet  
Yellow

Plane:
 

▼

Blue  
Red  
Violet  
Yellow

- A. Mastered
- B. Not Mastered

**Answer:** A

### Explanation:

Boat: Red Car: Blue Plane: Violet

## NEW QUESTION 298

### HOTSPOT

You have the following markup.

```
<body>
  <form id="personForm">
    First name: <input type="text" name="firstName" value="Ben"><br>
    Last name: <input type="text" name="score" value="Smith"><br>
    Score: <input type="text" name="score" value="10"><br>
  </form>
  <button id="submitPersonForm">Submit Serialized Form</button>
</body>
```

You need to create a single JSON object that directly contains the values from personForm and sends the object to a Web server API. The contents of the JSON object must have the format shown in the following sample.

```
{ "firstName": "Ben", "lastName": "Smith", "score": 10 }
```

How should you complete the JavaScript code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
<script src=http://ajax.asnetcdn.com/ajax/jquery/jquery-3.2.1.js></script>
<script>
  $(document).ready(function () {
    $("#submitPersonForm").click(function () {

      var personFormData = 
        <table border="1" data-bbox="244 150 648 207">
          <tr>
            <td>$("#personForm")</td>
            <td>.append</td>
            <td>("personForm");</td>
          </tr>
          <tr>
            <td>$("#submitPersonForm")</td>
            <td>.clone</td>
            <td>(#personForm);</td>
          </tr>
          <tr>
            <td>$("#document")</td>
            <td>.serialize</td>
            <td>0;</td>
          </tr>
          <tr>
            <td>$("#document")</td>
            <td>.serializeArray</td>
            <td>(submitPersonForm);</td>
          </tr>
        </table>

      console.log(personFormData);
      $.post(
        "/api/person",
        personFormData,
        function (responseData) {

          console.log(responseData);
        }
      );
    });
  });
</script>
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

var personalFormData = \$("#personForm").serialize(submitPersonForm);

NEW QUESTION 301

.....

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