

Exam Questions 70-480

Programming in HTML5 with JavaScript and CSS3

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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 = $("#txtValue").text();
    var regex = /^[0-9]*$/;
    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 = $("#txtValue").val();
    var regex = /^[0-9]*$/;
    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 an application that consumes a Windows Communication Foundation (WCF) service.

The application interacts with the service by using the following code. (Line numbers are included for reference only.)

```

01 <script>
02   function getCountry(country) {
03     $.ajax({
04       type: "POST",
05       contentType: "application/json; charset=utf-8",
06       url: "http://contoso.com/Service.svc/GetCountry",
07       data: '{"Country":"' + country + "'",
08       dataType: "json",
09       success: OnSuccess,
10       error: OnError
11     });
12   }
13   function OnSuccess(data, status) {
14     ...
15   }
16   function OnError(request, status, error) {
17     ...
18   }
19 }
20 </script>

```

You need to authenticate to the WCF service. What should you do?

- A. At line 11, add the following lines of code.,username: yourusername,password: yourpassword
- B. At line 11, add the following line of code.,credentials: prompt
- C. At line 06, replace the code with the following line of code
- D. url: "http://contoso.com/Service.svc/GetCountry? Username=username&password=password",
- E. At line 11, add the following line of code
- F. The username and password will be stored in an XML file.,credentials: credentials.xml

Answer: C

NEW QUESTION 3

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

```
<input id = "txtValue" />
```

A customer must enter a value in the text box prior to submitting the form. You need to add validation to the text box control.

Which HTML should you use?

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

Answer: A

Explanation:

Definition and Usage

The required attribute is a boolean attribute.

When present, it specifies that an input field must be filled out before submitting the form. Example

An HTML form with a required input field:

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

```
Username: <input type="text" name="username" required>
```

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

```
</form>
```

Username: <input type="text" name="username" required> Reference: HTML <input> required Attribute http://www.w3schools.com/tags/att_input_required.asp

NEW QUESTION 4

DRAG DROP

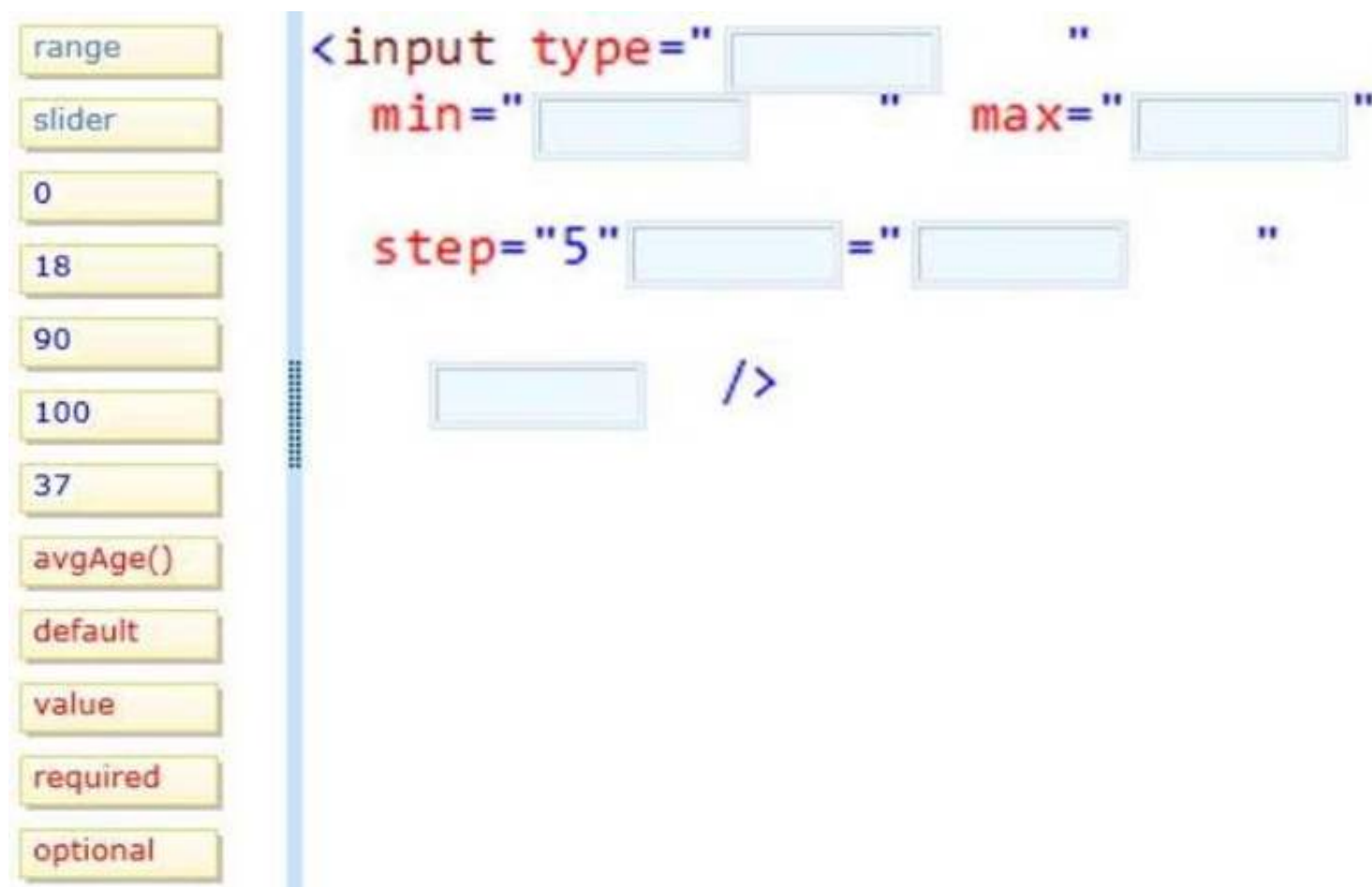
You are developing a web page for runners who register for a race. The page includes a slider control that allows users to enter their age.

You have the following requirements: All runners must enter their age.

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

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

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



- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Box 1-3: The `<input type="range">` is used for input fields that should contain a value within a range. Example `<input type="range" name="points" min="0" max="10">` Box 4-5: Use the value attribute to set the default value Box 6: Definition and Usage
 The required attribute is a boolean attribute.

When present, it specifies that an input field must be filled out before submitting the form.

Example

Username: `<input type="text" name="username" required>` Reference: HTML Input Types http://www.w3schools.com/html/html_form_input_types.asp

NEW QUESTION 5

You are creating a class named Consultant that must inherit from the Employee class. The Consultant class must modify the inherited PayEmployee method. The Employee class is defined as follows.

```
function Employee() {}
Employee.prototype.PayEmployee = function () { alert('Hi there!');
}
```

Future instances of Consultant must be created with the overridden method. You need to write the code to implement the Consultant class.

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

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

Answer: BC

Explanation:

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 6

You are creating a JavaScript function that displays the name of a web application. You declare the following button element.

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

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

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

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

- ☐ A. `var button = document.getElementById("About");
ScriptEngine.call(button, About());`
- ☐ B. `var button = document.getElementById("About");
ScriptEngine.bind(button, About());`
- ☐ C. `var button = document.getElementById("About");
button.addEventListener("click", About);`
- ☐ D. `var button = document.getElementById("About");
button.attachEvent("onclick", About);`

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

Answer: CD

Explanation:

C: 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.

D: attachEvent method

Registers an event handler function (event listener) for the specified event on the current object.

Reference: addEventListener method; attachEvent method <http://help.dottoro.com/ljeuqqoq.php> <http://help.dottoro.com/ljinxmt.php>

NEW QUESTION 7

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

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

What is displayed in the alert from line 11?

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

Answer: C

Explanation:

* The event handler here normalizes event object (passed as a first argument) and invokes handleCellClick in a proper context (i.e. referring to an element that was attached event listener to). The element is the button elButton.

* addEventListener

Syntax: element.addEventListener(event, function, useCapture) Reference: HTML DOM addEventListener() Method

NEW QUESTION 8

You are developing a web application that consumes services from a third-party application. A web worker processes the third-party application requests in the background. A page in the application instantiates the web worker process.

You need to establish two-way communications between the web worker process and the page. Which two actions will achieve this goal? (Each correct answer presents a complete solution. Choose two.)

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

Answer: BC

Explanation:

* When postMessage() is called from the main page, our worker handles that message by defining an onmessage handler for the message event.

* Server-Sent Events - One Way Messaging

A server-sent event is when a web page automatically gets updates from a server. Receive Server-Sent Event Notifications

The EventSource object is used to receive server-sent event notifications:

Example

```
var source = new EventSource("demo_sse.php"); source.onmessage = function(event) {
document.getElementById("result").innerHTML += event.data + "<br>";
};
```

Reference: http://www.w3schools.com/html/html5_serversentevents.asp <http://www.html5rocks.com/en/tutorials/workers/basics/>

NEW QUESTION 9

You are developing an HTML5 web application that displays customer mailing address information. The application loads addresses from a web service by using AJAX. The following code defines a Customer object and loads address data.

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

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

Customer.prototype.loadAddress = function () {

}
```

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

- ☐ A.

```
$.get('data.xml', function (data) {
    (function (scope) {
        scope.parseAddress(data);
    })(data);
});
```
- ☐ B.

```
$.get('data.xml', function (data, innerScope) {
    innerScope.parseAddress(data);
});
```
- ☐ C.

```
var that = this;
$.get('data.xml', function (data) {
    that.parseAddress(data);
});
```
- ☐ D.

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

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

Answer: C

NEW QUESTION 10

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

NEW QUESTION 10

DRAG DROP

You are developing an online shopping application that accepts credit cards for payment. If the credit card number is invalid, the application must:

Generate an error

Assign "200" to the error number Assign "Invalid" to the error description

You need to write the code that meets the requirements.

How should you write the code? (To answer, drag the appropriate code segment or segments to the correct location in the answer area)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



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

NEW QUESTION 12

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

Answer: D

Explanation:

D is the most correct.

Reference: CSS Text Module Level 3 <http://www.w3.org/TR/css3-text/#text-shadow> Note:

All options are incorrect nearest correct answers are B or D.

`#obj {text-shadow: <x-offset><y-offset><blur-radius><color>; }`

`<x-offset> +n right -n left`

`<y-offset> +n bottom -n top`

1 inch below means `<y-offset>` is 1in or 72 pt Hence actually answer must be

0px, 1in, 5px or

0px, 72pt, 5px

NEW QUESTION 17

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 18

You are developing a web page by using HTML5. You have the following requirements:

An H1 element must be placed at the top left corner of the page.

The size and location of the H1 element must not change if additional elements are added to the page.

You need to position the H1 element on the page. Which CSS3 style should you use?

☐ A.

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

☐ C.

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

☐ B.

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

☐ D.

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

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

Answer: A

Explanation:

* The position property specifies the type of positioning method used for an element (static, relative, absolute or fixed).

absolute: The element is positioned relative to its first positioned (not static) ancestor element

* For absolutely positioned elements, the left property sets the left edge of an element to a unit to the left/right of the left edge of its containing element.

CSS Syntax

left: auto|length|initial|inherit;

length: Sets the left edge position in px, cm, etc. Incorrect:

position static: Default value. Elements render in order, as they appear in the document flow Reference: CSS position Property; CSS left Property

NEW QUESTION 23

DRAG DROP

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

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

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

```
$( "a img").each(function () {
$(this).parent().attr('target', '_blank')
$( "a").each(function () {
$(this).attr('target', '_blank')
```

Answer Area

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

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

* a img
All elements that are descendants of an element.
* (this).parent
This is the element and is the parent.

NEW QUESTION 27

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

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



qui officia de
lookum like
liber te cons
tam neque p
consectetur s
makes one w
exercitation
esse cillum

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 28

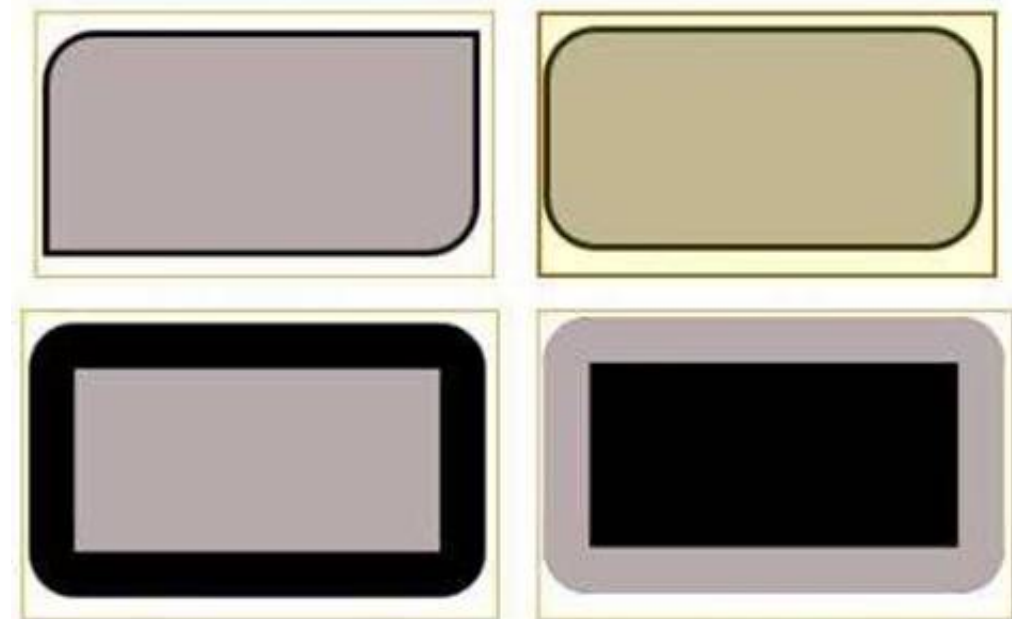
HOTSPOT

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

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

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

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

Result:



Reference: CSS3 border-radius Property

NEW QUESTION 33

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 38

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:link

A:visited

A:hover

A:active

- 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

NEW QUESTION 39

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 40

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 44

You are developing an application that consumes an external web service that returns the latest stock rate.

The application has two methods:

The `getResults()` method makes an AJAX web service request

The `ShowRate()` method displays the stock rate from the web service response

You need to ensure that the `ShowRate()` method always displays the latest stock rate. Which code segment should you use?

- ☐ A.

```
function getResults(){
$.ajax({
    type: 'POST',
    cache:true,
    url: "StockRates.asmx/GetRate",
    data: { 'StockName': stockName },
    dataType: 'json',
    success: function (result) {
        stockRate = result;
    });
    ShowRate();
}

function ShowRate() {
    alert(stockRate);
}
```
- ☐ B.

```
var stockRate;
function getResults(){
$.ajax({
    async: false,
    type: 'POST',
    url: "StockRates.asmx/GetRate",
    data: { 'StockName': stockName },
    dataType: 'json',
    success: function (result) {
        stockRate = result;
    });
    ShowRate();
}

function ShowRate() {
    alert(stockRate);
}
```
- ☐ C.

```
var stockRate;
function getResults(){
$.ajax({
    async: true,
    type: 'POST',
    url: "StockRates.asmx/GetRate",
    data: { 'StockName': stockName },
    dataType: 'json',
    success: function (result) {
        stockRate = result;
    });
    ShowRate();
}

function ShowRate() {
    alert(stockRate);
}
```
- ☐ D.

```
var stockRate;
function getResults(){
$.ajax({
    async: false,
    cache:false,
    type: 'POST',
    url: "StockRates.asmx/GetRate",
    data: { 'StockName': stockName },
    dataType: 'json',
    success: function (result) {
        stockRate = result;
    });
    ShowRate();
}

function ShowRate() {
    alert(stockRate);
}
```

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

Answer: D

Explanation:

" always displays the latest stock rate ". Should use `cache: false` Note: `cache` (default: `true`, `false` for `dataType` 'script' and 'jsonp') Type: Boolean
 If set to `false`, it will force requested pages not to be cached by the browser. Reference: `jQuery.ajax()`

NEW QUESTION 45

DRAG DROP

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

You have the following requirements:

The function must return "Number" if the object is a number

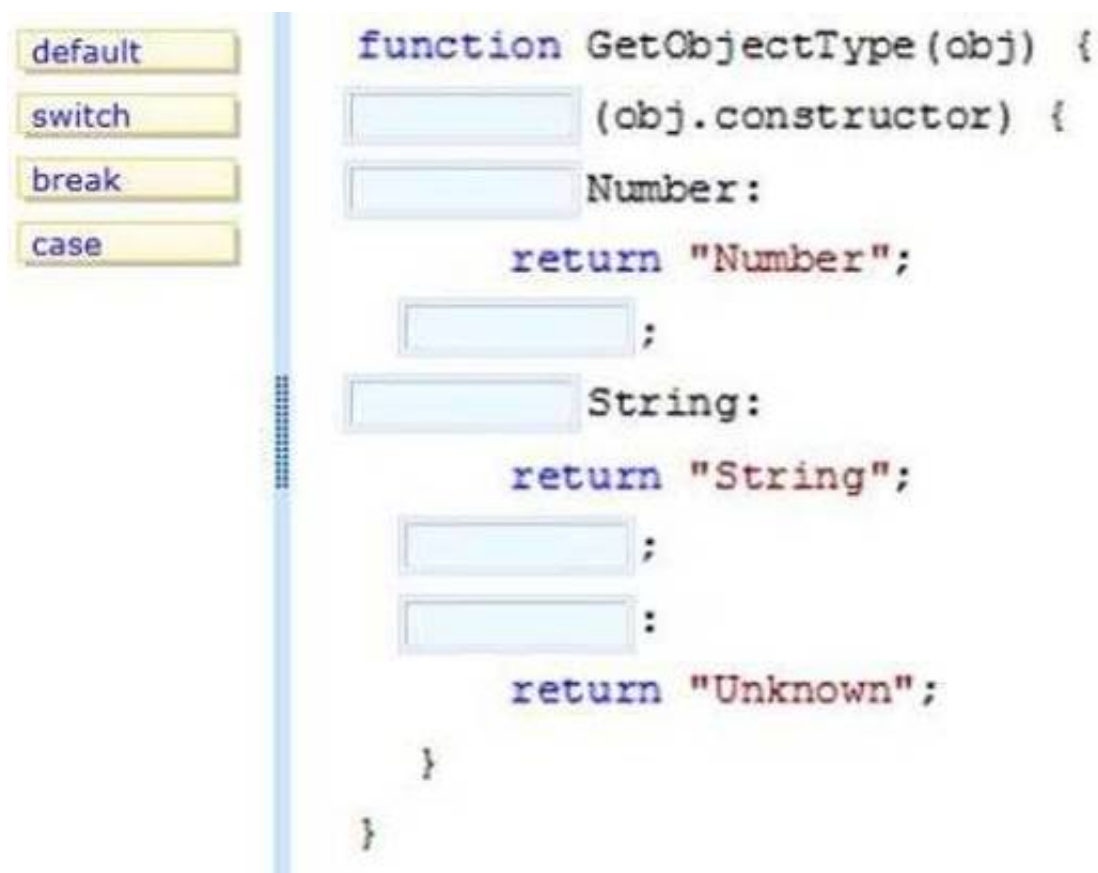
The function must return "String" if the object is a string

The function must return "Unknown" if the object is neither a number nor a string

You need to implement the function to meet the requirements.

How should you build the code segment? (To answer, drag the appropriate word to the correct location in the code segment. Each word may be used once, more than once, or not at all. You may

need to drag the split bar between panes or scroll to view content.)



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

* Use the switch statement to select one of many blocks of code to be executed.

Syntax switch(expression) {

case n:

code block break;

case n:

code block

break; default:

default code block

}

This is how it works:

The switch expression is evaluated once.

The value of the expression is compared with the values of each case. If there is a match, the associated block of code is executed.

* 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".

* Description

All objects inherit a constructor property from their prototype: var o = {};

o.constructor === Object; // true var a = [];

a.constructor === Array; // true var n = new Number(3); n.constructor === Number; // true

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

Reference: JavaScript Switch Statement;Object.prototype.constructor

NEW QUESTION 46

You are testing the value of the following variable in JavaScript. var height = "300";

A block of code must execute if the following conditions are true: The height variable is set to 300

The height variable is of type string

You need to implement the code to run the test. Which line of code should you use?

- A. if (height == 300)
- B. if (height == "300")
- C. if (height != "300")
- D. if (height != 300)

Answer: B

Explanation:

Use == to test for equality.

Use "300" to test for the string.

NEW QUESTION 48

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 52

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 56

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

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

Future instances of Sedan must be created with the overridden method. You need to write the code to implement the Sedan class. Which two code segments should you use? (Each correct answer presents part of the solution. Choose two.)

- ☐ A.

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

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

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

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

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

Answer: BC

Explanation:

* The Object.prototype property represents the Object prototype object.

* Object.prototype.constructor

Specifies the function that creates an object's prototype.

* Example:

```
Employee.prototype = new Person(); var Customer = function(name) { this.name = name;
};
```

```
Customer.prototype = new Person(); var Mime = function(name) { this.name = name;
this.canTalk = false;
```

```
};
```

```
Mime.prototype = new Person(); Reference: Object.prototype
```

NEW QUESTION 58

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 63

You are developing an HTML5 page.

You need to add author and copyright information. Which tag should you use?

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

Answer: C

Explanation:

The footer element represents a footer for its nearest ancestor sectioning content or sectioning root element. A footer typically contains information about its section such as who wrote it, links to related documents, copyright data, and the like.

Reference: The footer element

<http://dev.w3.org/html5/spec-preview/the-footer-element.html>

NEW QUESTION 68

DRAG DROP

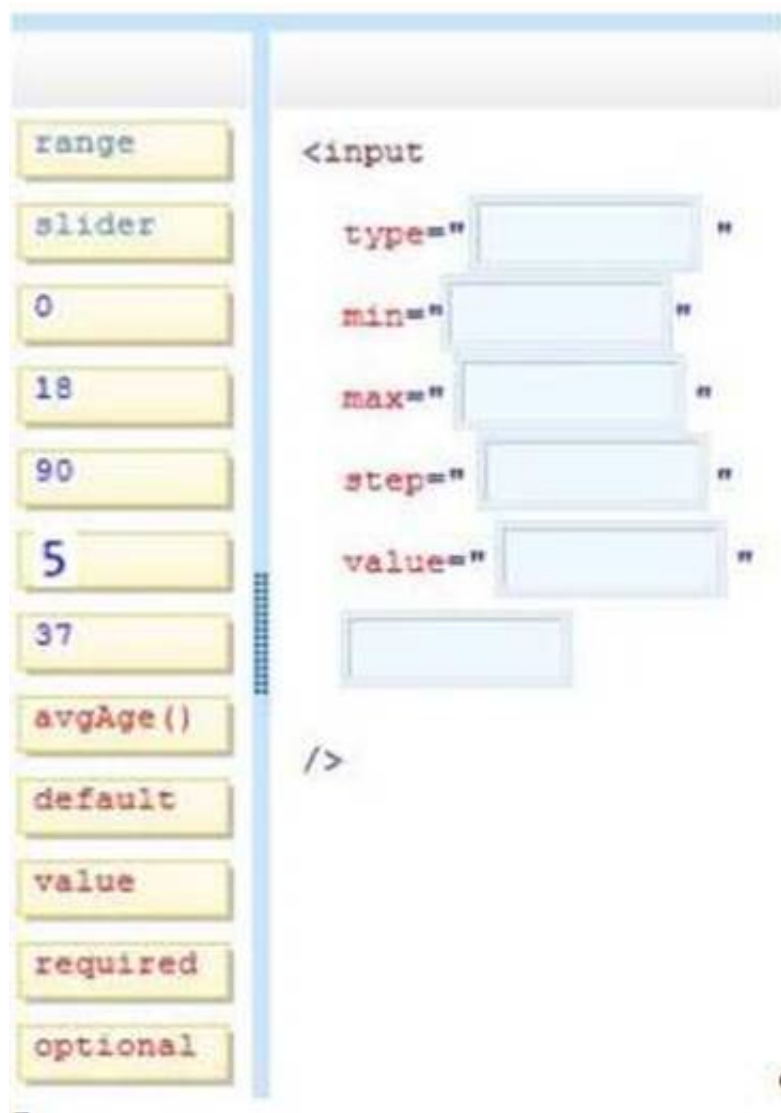
You are developing a web page for runners who register for a race. The page includes a slider control that allows users to enter their age. You have the following requirements:

All runners must enter their age.

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

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

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1-3: The <input type="range"> is used for input fields that should contain a value within a range.

Example

<input type="range" name="points" min="0" max="10"> Box 4:

The step attribute specifies the legal number intervals for an <input> element.

Example: if step="3", legal numbers could be -3, 0, 3, 6, etc. Syntax

<input step="number"> number

Specifies the legal number intervals for the input field. Default is 1 Box 5: Use the value attribute to set the default value. Here: 37 Box 6: Definition and Usage

The required attribute is a boolean attribute.

When present, it specifies that an input field must be filled out before submitting the form. Example

Username: <input type="text" name="username" required> Reference: HTML Input Types http://www.w3schools.com/html/html_form_input_types.asp

NEW QUESTION 71

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 76

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 79

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


```
<div>
  Picture:<br />
  <div id = "picture">
  </div>
</div>
```

You need to move the picture element lower on the page by five pixels.

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

- A. document.getElementById("picture").style.position = "relative";
- B. document.getElementById("picture").style.top = "5px";
- C. document.getEiementById("picture").style.top = "-5px";
- D. document.getElementById("picture").style.position = "absolute";

Answer: AB

Explanation:

We use relative position to move the position 5 pixels lower on page. Using a negative value would move the picture higher on the page. Note:

* The top property sets or returns the top position of a positioned element.

This property specifies the top position of the element including padding, scrollbar, border and margin.

Syntax

Set the top property: Object.style.top="auto|length|%|inherit" Where:

Length defines the top position in length units. Negative values are allowed

NEW QUESTION 80

You are developing an HTML5 web application and are styling text. You need to use the text- transform CSS property.

Which value is valid for the text-transform property?

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

Answer: C

Explanation:

CSS Syntax

text-transform: none|capitalize|uppercase|lowercase|initial|inherit; Example

Transform text in different elements: h1 {text-transform:uppercase;}

h2 {text-transform:capitalize;} p {text-transform:lowercase;}

Reference: CSS text-transform Property http://www.w3schools.com/cssref/pr_text_text-transform.asp

NEW QUESTION 85

You are developing an HTML5 web application and are styling text. You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

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

Answer: A

Explanation:

CSS Syntax

text-transform: none|capitalize|uppercase|lowercase|initial|inherit; Example

Transform text in different elements: h1 {text-transform:uppercase;}

h2 {text-transform:capitalize;} p {text-transform:lowercase;}

Reference: CSS text-transform Property http://www.w3schools.com/cssref/pr_text_text-transform.asp

NEW QUESTION 90

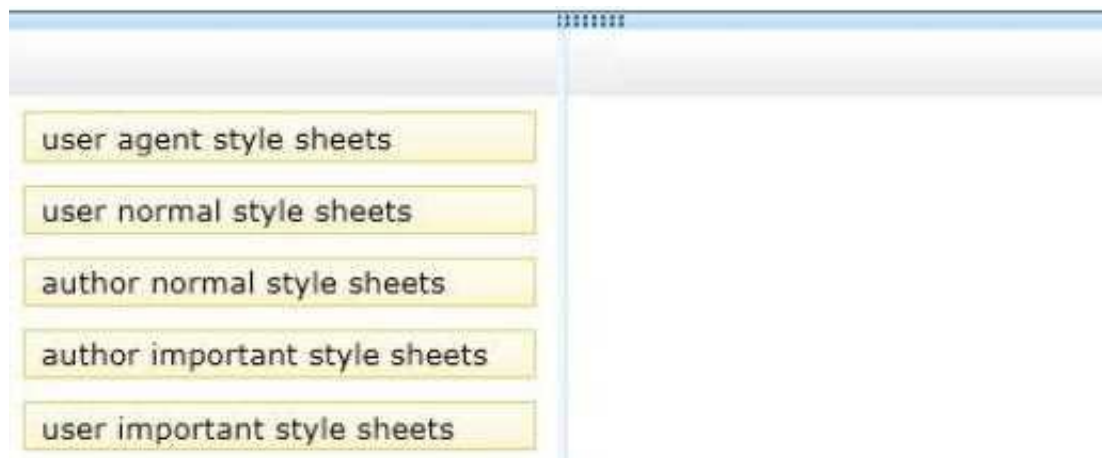
DRAG DROP

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

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

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

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: user agent style sheets Box 2: user normal style sheets
 Box 3 author normal style sheets: Box 4: author important style sheets Box 5: user important style sheets Note:
 The order of declarations from least important to most important:
 user agent declarations user normal declarations author normal declarations
 author important declarations user important declarations

NEW QUESTION 95

You are developing an HTML5 web application and are styling text. You need to use the text-transform CSS property. Which value is valid for the text-transform property?

- A. Italic
- B. Red
- C. Capitalize
- D. Line-through

Answer: C

Explanation:

CSS Syntax
 text-transform: none|capitalize|uppercase|lowercase|initial|inherit; Example
 Transform text in different elements: h1 {text-transform:uppercase;}
 h2 {text-transform:capitalize;} p {text-transform:lowercase;}
 Reference: CSS text-transform Property http://www.w3schools.com/cssref/pr_text_text-transform.asp

NEW QUESTION 96

You develop a webpage.
 The webpage must display a grid that contains one row and five columns. Columns one, three, and five are the same width. Columns two and four are the same width, but much wider than columns one, three, and five. The grid resembles the following image:



The grid must meet the following requirements:
 Each row must be tall enough to ensure that images are not cut off. Each row must contain five columns.
 The width of the columns must not change when the screen is resized or rotated. You need to define the style for the grid. Which CSS3 style should you use?

- ☐ A.

```
<style type="text/css">
#grid {
display: -ms-grid;
-ms-grid-columns: 2fr (3fr 2fr) [2];
-ms-grid-rows: auto;
}
</style>
```
- ☐ B.

```
<style type="text/css">
#grid {
display: -ms-grid;
-ms-grid-columns: 100px (250px 100px) [2];
-ms-grid-rows: min-content;
}
</style>
```
- ☐ C.

```
<style type="text/css">
#grid {
display: -ms-grid;
-ms-grid-columns: 100px 250px 100px 250px 100px;
-ms-grid-rows: auto;
}
</style>
```
- ☐ D.

```
<style type="text/css">
#grid {
display: -ms-grid;
-ms-grid-columns: 100px 250px 100px 250px 100px;
-ms-grid-rows: min-content;
}
</style>
```

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

Answer: C

Explanation:

* -ms-grid-rows property auto

The height of a row is computed based on the tallest child element in that column. Incorrect:

Not A: The width of the columns must not change when the screen is resized or rotated.

Not B, Not D: -ms-grid-rows property min-content

The minimum height of any child elements is used as the height of the row.

Note:

* width

The width of each column specified as one of the following values:

A length consisting of an integer number, followed by an absolute units designator ("cm", "mm", "in", "pt", or "pc") or a relative units designator ("em", "ex", or "px").

A percentage of the object width.

A proportion of the remaining horizontal space (that is, the object width, less the combined widths of other tracks), consisting of an integer number followed by a fractional designator ("fr"). For example, if "200px 1fr 2fr" is specified, the first column is allocated 200 pixels, and the second and third columns are allocated 1/3 and 2/3 of the remaining width, respectively.

NEW QUESTION 99

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


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

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

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

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

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

The library may throw many types of exceptions. The exceptions are grouped by category. You need to catch and identify the exceptions by group. Which code segment should you insert at line 05?

- ☐ A.

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

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

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

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


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

Answer: B

Explanation:

instanceof

The instanceof operator tests whether an object has in its prototype chain the prototype property of a constructor.

The instanceof operator tests presence of constructor.prototype in object prototype chain. Example::

// defining constructors function C(){}

function D(){ var o = new C();

// true, because: Object.getPrototypeOf(o) === C.prototype o instanceof C;

// false, because D.prototype is nowhere in o's prototype chain o instanceof D;

Reference: instanceof

NEW QUESTION 102

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 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 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 105

DRAG DROP

A company asks you to create a function that displays loan amounts to their customers. You must create the function by using JavaScript to meet the following requirements: Display three different loan amounts to each customer.

Display loan amounts in order starting with the greatest amount and ending with the least amount. You need to implement the function.

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

Use only commands that apply.)

Answer Area

showSomeLoanAmount();

showAnotherLoanAmount();

var loanAmount = 400;

var loanAmount = 800;

var loanAmount = 1000;

```

function showLoanAmounts() {
    [ ]
    function showSomeLoanAmount() {
        [ ]
        function showAnotherLoanAmount() {
            [ ]
            alert(loanAmount);
        }
        [ ]
        alert(loanAmount);
    }
    showSomeLoanAmount();
    alert(loanAmount);
}
                    
```

A. Mastered

B. Not Mastered

Answer: A

Explanation:

* The innermost assignment to the loanAmount variable should be the highest.

* 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

}

* The alert() method displays an alert box with a specified message and an OK button.

An alert box is often used if you want to make sure information comes through to the user. Reference: JavaScript Scope

NEW QUESTION 108

DRAG DROP

You are creating a function named getText().

The function must retrieve information from text files that are stored on a web server. You need to develop the function to meet the requirement.

Which code segment or segments should you use? (To answer, drag the appropriate command from the list of commands to the correct location or locations in the work area)

A. Mastered

B. Not Mastered

Answer: A

Explanation:

* onreadystatechange

When a request to a server is sent, we want to perform some actions based on the response. The onreadystatechange event is triggered every time the readyState changes.

The readyState property holds the status of the XMLHttpRequest.

Example xmlhttp.onreadystatechange=function()

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

* Send a Request To a Server

To send a request to a server, we use the open() and send() methods of the XMLHttpRequest object: xmlhttp.open("GET","xmlhttp_info.txt",true);

xmlhttp.send();

Reference: AJAX - The onreadystatechange Event; The XMLHttpRequest Object

NEW QUESTION 110

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>
```

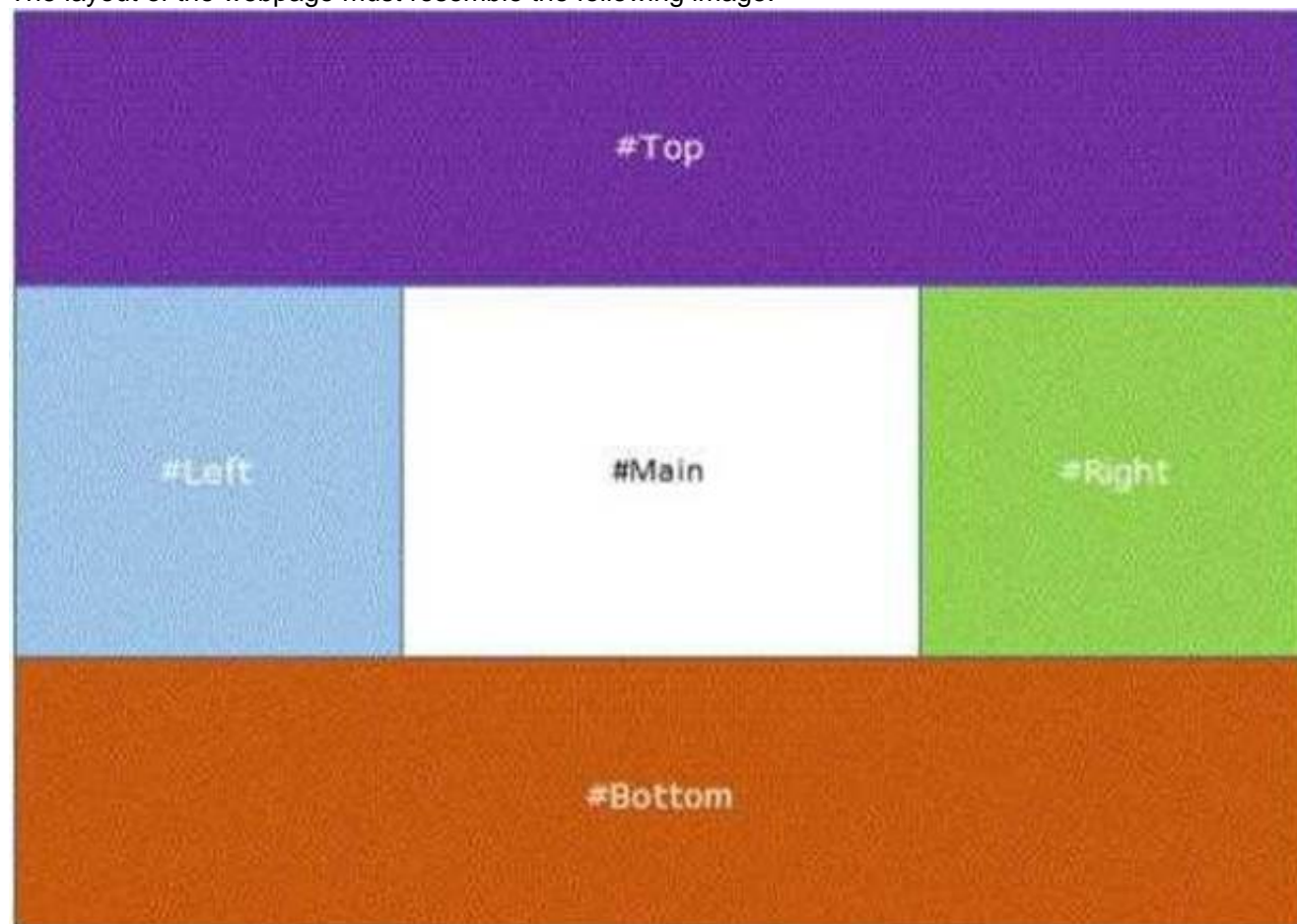
```
</head>
```

```
<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

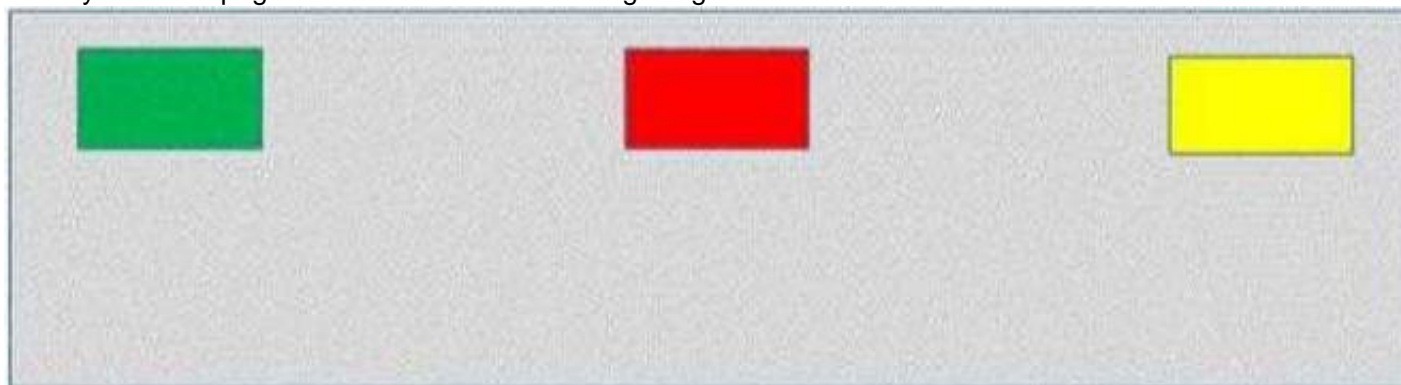
NEW QUESTION 111

HOTSPOT

You are developing a web page.

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

The layout of the page must resemble the following image:



You need to ensure that the page renders properly.

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

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

        -ms-flex-align: ;

        -ms-flex-pack: ;

        width: 550px;
        height: 400px;
    }
</style>
<style>
    .box {
        display: -ms-flexbox;
        -ms-flex-direction: row;

        -ms-flex-align: ;

        -ms-flex-pack: ;

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

* -ms-flex-align

center: The flexbox item's margin box is centered in the cross axis within the line.

* -ms-flex-pack

The 'flex-pack' property defines the flexibility of these packing spaces. Reference: CSS property '-ms-flex-align'; CSS property '-ms-flex-pack'

NEW QUESTION 115

DRAG DROP

You create the following JavaScript code:

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

You must complete the ShowCanWeAfford() function:

Display the message Denied! If the PaymentAmount variable is greater than 500. Display the message Approved! If the PaymentAmount variable is less than 300.

Display the message Approved with caution! If the PaymentAmount variable is less than 500 and greater than 300.

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

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

	Answer Area
<pre>else if (this.PaymentAmount 300) { alert('Approved!'); }</pre>	
<pre>else if (this.PaymentAmount > 500 && this.PaymentAmount < 300) { alert('Approved with caution!'); }</pre>	
<pre>else if (this.PaymentAmount < 300) { alert('Approved!'); }</pre>	
<pre>if (this.PaymentAmount > 500) { alert('Denied!'); }</pre>	
<pre>if (this.PaymentAmount >= 500) { alert('Denied!'); }</pre>	
<pre>else { alert('Approved with caution!'); }</pre>	
<pre>if (this.PaymentAmount >> 500) { alert('Denied!'); }</pre>	
<pre>else if (this.PaymentAmount << 300) { alert('Approved!'); }</pre>	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1:

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

Box 2:

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


Box 3:

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

Note:

Use > for greater than comparison. Use < for less than comparison.

NEW QUESTION 118

HOTSPOT

You test a webpage that contains the following JavaScript code:

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

The webpage also contains the following markup:

```
Integer 1: <input type="text" id="int1" /><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 int1 textbox, the number 3 in the int2 textbox, and then clicks the add button, the webpage displays an alert message with a value of 5.
<input type="radio"/>	<input type="radio"/>	If the user enters the number 2 in the int1 textbox, the number 0 in the int2 textbox, and then clicks the divide button, the unhandled JavaScript function runs.
<input type="radio"/>	<input type="radio"/>	If the user enters the number 2 in the int1 textbox, the letter a in the int2 textbox, and then clicks the divide button, the unhandled JavaScript function runs.

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 int1 textbox, the number 3 in the int2 textbox, and then clicks the add button, the webpage displays an alert message with a value of 5.
<input type="radio"/>	<input checked="" type="radio"/>	If the user enters the number 2 in the int1 textbox, the number 0 in the int2 textbox, and then clicks the divide button, the unhandled JavaScript function runs.
<input checked="" type="radio"/>	<input type="radio"/>	If the user enters the number 2 in the int1 textbox, the letter a in the int2 textbox, and then clicks the divide button, the unhandled JavaScript function runs.

NEW QUESTION 123

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

The application must:

Display the blueprints at different zoom levels without loss of detail Print the blueprints without loss of detail

Work from only one source file per blueprint

You need to ensure that blueprints display according to the requirements. Which HTML5 element should you use?

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

Answer: C

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 124

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

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

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

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

Answer: BD

Explanation:

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

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

D:

* Because we're using XMLHttpRequest, the uploading is happening in the background. The page the user is on remains intact. Which is a nice feature to have if your business process can work with it.

* The XMLHttpRequest object has gotten a facelift in the Html5 specifications. Specifically the XMLHttpRequest Level 2 specification (currently the latest version) that has included the following new features:

Handling of byte streams such as File, Blob and FormData objects for uploading and downloading Progress events during uploading and downloading

Cross-origin requests

Allow making anonymous request - that is not send HTTP Referer The ability to set a Timeout for the Request

NEW QUESTION 125

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

You need to check the Internet connectivity status of a user's browser. Which method should you use?

- ☐ A.

```
function checkConnection()
{
    if (navigator.isOnline) {
        ...
    }
}
```
- ☐ B.

```
function checkConnection()
{
    if (browser.isOnline) {
        ...
    }
    else
    {
        ...
    }
}
```
- ☐ C.

```
function checkConnection()
{
    if (browser.online) {
        ...
    }
    else
    {
        ...
    }
}
```
- ☐ D.

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

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

Answer: D

Explanation:

Navigator onLine Property

The onLine property returns a Boolean value that specifies whether the browser is in online or offline mode. Example

Find out whether the browser is online:

var x = "Is the browser online? " + navigator.onLine; The result of x will be:

Is the browser online? true Reference: Navigator onLine Property

NEW QUESTION 129

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

<button id="btnEdit" style="display: none;>Edit</button> The button is not displayed by default.

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

You need to add code to the document.ready() function to meet the requirements for the button. Which line of code should you use?

- A. \$('#btnEdit').appear ();
 B. \$('#btnEdit').visible = true;
 C. \$('#btnEdit').show();
 D. \$('#btnEdit').Visible();

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 130

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 132

HOTSPOT

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

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

You have the following requirements:

- Display a message if users select the first OPTION element, and then submit the form.
- Do not display an alert message if users select any other OPTION element, and then submit the form.
- You need to implement the madeSelection() function.

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

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

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

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

* The <select> element is used to create a drop-down list.
 The <option> tags inside the <select> element define the available options in the list.
 * option.value text
 Specifies the value to be sent to a server Reference: HTML <option> Tag

NEW QUESTION 133

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 138

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 142

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

```
<body>

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

</body>
```

The heading tags represent a blog post title, a blog post subtitle, and the author's name.

You need to ensure that the three headings are treated as a unit but retain their individual formatting.

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

A. <group></group>

B. <header></header>

- C. <hgroup></hgroup>
D. <headings></headings>

Answer: C

Explanation:

The <hgroup> tag is used to group heading elements.

The <hgroup> element is used to group a set of <h1> to <h6> elements, when a heading has multiple levels (subheadings).

Reference: HTML <hgroup> Tag

NEW QUESTION 143

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 145

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, MSSStream into memory as an ArrayBuffer object.

Reference: FileReader.readAsArrayBuffer

NEW QUESTION 146

DRAG DROP

You are developing a shared library to format information. The library contains a method named _private.

The _private method must never be called directly from outside of the shared library. You need to implement an API for the shared library.

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

Answer Area

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

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

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

```
}
```

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

```
function getFormatter() {
```

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

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1:

```
function getFormatter() {
```

Box 2:

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

Box 3:

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

Box 4:

```
}
```

Note:


```

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

```

* Here there is a basic example:

// our constructor

```
function Person(name, age){ this.name = name; this.age = age;
```

```
};
```

// prototype assignment Person.prototype = (function(){

// we have a scope for private stuff

// created once and not for every instance function toString(){

return this.name + " is " + this.age;

```
};
```

// create the prototype and return them return {

// never forget the constructor ... constructor:Person,

// "magic" toString method toString:function(){

// call private toString method return toString.call(this);

```
}
```

```
};
```

})();

* Example:

You can simulate private methods like this: function Restaurant() {

```
}
```

Restaurant.prototype = (function() { var private_stuff = function() {

// Private code here

```
};
```

return { constructor:Restaurant, use_restroom:function() {

private_stuff();

```
}
```

```
};
```

})();

var r = new Restaurant();

// This will work: r.use_restroom();

// This will cause an error: r.private_stuff();

NEW QUESTION 151

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 155

DRAG DROP

You create a webpage that includes the following HTML markup: (Line numbers are included for reference only.)

```

01  <!DOCTYPE html>
02  <html>
03    <head>
04      <script src="jquery.js"></script>
05    </head>
06    <body>
07      <p>Type OK to validate form.</p>
08      <form action="javascript:alert('success!');">
09        <div>
10          <input type="text" />
11          <input type="submit" />
12        </div>
13      </form>
14      <script>
15
16      </script>
17    </body>
18  </html>

```

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

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 160

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 163

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);

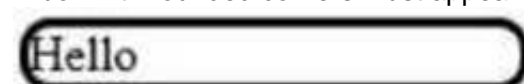
```

NEW QUESTION 168

HOTSPOT

You create a custom style by using CSS3.

A box with rounded corners must appear around text. The box must match the following illustration:



You need to add the CSS3 markup to your style.

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


```
<style>
  p {
    border: solid;

  }
</style>
<style>
  p {
    border: solid;

  }
</style>
```

display: inline;
box-sizing: border-box;
box-shadow: 10px 10px 10px #f00;
box-shadow: 4px 4px 4px #f00;

border-radius: 10px;
border-spacing: 10px;
border-bottom-style: outset;
box-decoration-break: slice;

```
/style>
```

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

* box-sizing

The box-sizing property is used to tell the browser what the sizing properties (width and height) should include.

Should they include the border-box or just the content-box which is the default value of the width and height properties.

* border-radius

The border-radius property is a shorthand property for setting the four border-*-radius properties. Example

Add rounded borders to a <div> element: div {

border: 2px solid; border-radius: 25px;

}

Reference: CSS3 box-sizing Property; CSS3 border-radius Property

NEW QUESTION 170

HOTSPOT

You implement a callback function by using JavaScript. You need to process the returned XML data.

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

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

        }

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

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

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

        }

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

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

    });
}
</script>
```

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

* Example:
httpRequest.onreadystatechange = function() {
// inline function to check the status
// of our request
// this is called on every state change if (httpRequest.readyState === 4 && httpRequest.status === 200) {
callback.call(httpRequest.responseXML);
// call the callback function
}
};
// call the function some_function2("text.xml", function() {
console.log(this);
});
Reference: understand callback functions in Javascript

NEW QUESTION 175

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 178

DRAG DROP

You create an HTML5 application that includes JavaScript. The application performs several AJAX requests. One AJAX request retrieves order information from a web service and then sends the information back to a webpage within the application.

You must create a custom event. You have the following requirements:

The webpage must contain an HTML element named `ordersListing` that will receive the custom event notification.

The event name must be `ordersReceived`.

The event must pass a custom value named `orderCount`.

The event must run a JavaScript method named `showOrdersReceivedCount` after the `orders Listing` HTML element receives the event.

Do not allow other DOM elements to receive the event. Allow the event to be cancelled.

Send the event into the event system.

You need to implement the custom event to notify specific DOM elements of the AJAX response. Which three actions should you perform in sequence? (Develop the solution by selecting the required code segments and arranging them in the correct order.)

	Answer Area
<pre>ordersListing.dispatchEvent(new CustomEvent ("ordersReceived", { detail: { orderCount: 5 }, bubbles: false, cancelable: true }));</pre>	
<pre>var ordersReceivedEvent = new CustomEvent ("ordersReceived", { bubbles: true, cancelable: true });</pre>	
<pre>ordersListing.addEventListener ("orders", showOrders);</pre>	
<pre>ordersReceived.dispatchEvent (ordersReceivedEvent);</pre>	
<pre>var ordersReceived = document.getElementById ("ordersReceived");</pre>	
<pre>var ordersListing = document.getElementById ("ordersListing");</pre>	
<pre>ordersListing.addEventListener ("ordersReceived", showOrdersReceivedCount);</pre>	
<pre>ordersListing.dispatchEvent(new CustomEvent ("ordersReceived", { detail: { orderCount: 5 }, bubbles: true, cancelable: false }));</pre>	

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

- * From Scenario: Do not allow other DOM elements to receive the event. So: bubbles: false
- * From scenario: Allow the event to be cancelled. So: cancelable: true
- * From scenario:

The webpage must contain an HTML element named ordersListing that will receive the custom event notification.

* Events which are designated as bubbling will initially proceed with the same event flow as non- bubbling events. The event is dispatched to its target EventTarget and any event listeners found there are triggered. Bubbling events will then trigger any additional event listeners found by following the EventTarget's parent chain upward, checking for any event listeners registered on each successive EventTarget. This upward propagation will continue up to and including the Document. EventListeners registered as capturers will not be triggered during this phase. The chain of EventTargets from the event target to the top of the tree is determined before the initial dispatch of the event. If modifications occur to the tree during event processing, event flow will proceed based on the initial state of the tree.

Note:

* Ajax (an acronym for Asynchronous JavaScript and XML) is a group of interrelated web development techniques used on the client-side to create asynchronous web applications. With Ajax, web applications can send data to, and retrieve data from, a server asynchronously (in the background) without interfering with the display and behavior of the existing page. Data can be retrieved using the XMLHttpRequest object. Despite the name, the use of XML is not required (JSON is often used instead), and the requests do not need to be asynchronous.

NEW QUESTION 182

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 187

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

```

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

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

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

```

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

Which code segment should you add to the webpage?

- A.

```
$( 'input [name!="name"]' ).css ( { 'background-color' : ' #E0ECF8' } );
```
- B.

```
$( 'input [name="~name"]' ).css ( { 'background-color' : ' #E0ECF8' } );
```
- C.

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

```
$( 'input [name="$name"]' ).css ( { 'background-color' : ' #E0ECF8' } );
```

Answer: C

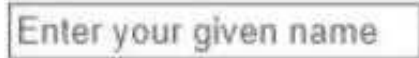
Explanation:

The string pattern "*name" matches all strings that ends with name.

NEW QUESTION 189

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

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



When a user selects the input control, the text must disappear. You need to create the input control.

Which input control should you use?

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

Answer: D

Explanation:

The placeholder attribute specifies a short hint that describes the expected value of an input field (e.g. a sample value or a short description of the expected format).

The short hint is displayed in the input field before the user enters a value.

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

Reference: HTML `<input>` placeholder Attribute

NEW QUESTION 193

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

The SecurityCode element must meet the following requirements: Allow up to 6 digits.

Do not display numbers as they are entered.

Display the text Enter PIN Code before the user enters any data. You need to implement the SecurityCode element.

Which HTML markup should you add to the application?

- ☐ A.

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

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

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

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

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

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

Answer: D

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 placeholder attribute specifies a short hint that describes the expected value of an input field

a. g. a sample value or a short description of the expected format).

The short hint is displayed in the input field before the user enters a value.

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

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

NEW QUESTION 198

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 203

You develop an application to host user-generated HTML and JavaScript content. A common error handler in your application must process all unhandled errors. You need to implement global error handling for the application.

Which code segment should you use?

☒ A.

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

☐ B.

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

☐ C.

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

☐ D.

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

A. Option A

B. Option B

C. Option C

D. Option D

Answer: A

Explanation:

GlobalEventHandlers.onerror

An event handler for runtime script errors.

Syntax

window.onerror = funcRef;

Reference: GlobalEventHandlers.onerror

NEW QUESTION 206

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

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

You need to ensure that the function performs as required. Which method or operator should you add to the function?

A. parentObj instanceof(testObj)

B. testObj.isPrototypeOf(parentObj)

C. testObj instanceof(parentObj)

D. parentObj.isPrototypeOf(testObj)

Answer: B

Explanation:

The isPrototypeOf() method tests for an object in another object's prototype chain. Reference: Object.prototype.isPrototypeOf()

NEW QUESTION 208

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 211

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

You need to minimize the ability for malicious scripts to execute on the site. Which line of code should you use?

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

Answer: A

Explanation:

The sandbox attribute enables an extra set of restrictions for the content in the iframe. Syntax

`<iframe sandbox="value">`

Attribute Values

no value: Applies all restrictions etc.

No attribute value: allowscripts (not D) Reference: HTML <iframe> sandbox Attribute

NEW QUESTION 215

You develop an HTML5 application that interacts with a REST service. The REST service accepts JSON data. A JavaScript object named formData contains data that is sent to the REST service. You need to convert the JavaScript object named formData into JSON.

Which code segment should you use?

- A. `jQuery.ajax.valueOf(formData);`
 B. `window.evai(formData);`
 C. `JSON.stringify(formData);`

D. formData.toString();

Answer: C

Explanation:

JSON.stringify converts a JavaScript value to a JavaScript Object Notation (JSON) string. Reference: JSON.stringify Function (JavaScript)

NEW QUESTION 218

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

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

You need to modify the content of the H1 element dynamically by using JavaScript. Which code segment should you use?

- ☐ A.

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

```
var myHeader = document.getElementById("header");  
  
myHeader = "A Dynamic Page";
```
- ☐ C.

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

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

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

Answer: D

Explanation:

innerHTML

The innerHTML property sets or returns the HTML content (inner HTML) of an element. Example

Change the HTML content of a <h1> element with id="header": document.getElementById("header").innerHTML = "A dynamic page"; Reference: HTML DOM innerHTML Property

NEW QUESTION 222

DRAG DROP

You are developing an HTML5 web application that will display encyclopedia entries. Each encyclopedia entry has an associated image that is referred to in the entry.

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

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

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

The <figure> element

The <figure> element is intended to be used in conjunction with the <figcaption> element to mark up diagrams, illustrations, photos, and code examples (among other things).

Example:

```
<figure>
```

```

```

```
<figcaption>A cheeky macaque, Lower Kintaganban River, Borneo. Original by <a href="http://www.flickr.com/photos/rclark/">Richard Clark</a></figcaption>
```

```
</figure>
```

Reference: The figure & figcaption elements

NEW QUESTION 223

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

Hello, World! 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 226

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 231

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

```
<input type="text" id="username" />
```

You need to prevent users from entering specific characters into the username field. What should you do?

- A. Using the keyup event, add an anonymous function that returns true when a specific characterkeycode value is determined.
- B. Using the change event, add an anonymous function that returns true when a specific character keycode value is determined.
- C. Using the keydown event, add an anonymous function that returns false when a specific character keycode value is determined.
- D. Using the change event, add an anonymous function that returns false when a specific character keycode value is determined.

Answer: B

Explanation:

The change event is fired for <input>, <select>, and <textarea> elements when a change to the element's value is committed by the user. Use the change event and an anonymous function to detect illegal specific characters in the input.

NEW QUESTION 236

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 238

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

```
<div class="new" Item">...</div>
```

You have the following requirements:

In addition to your CSS, you must use a corporate branded stylesheet named corporate.css. The corporate.css file contains the style rule that must be used for .newsItem.

You must use the corporate.css file to ensure that the webpage changes when the brand changes. You must add additional style rules to the webpage.

You cannot modify the corporate.css file.

You need to apply the appropriate CSS rules to meet the requirements. What should you do?

- A. Add a CSS class named .newsItemUpdates to the webpage, add only the new styles to this class, and update the class attribute of the HTML markup:<div class=nnewsItem newsItemUpdates">...</div>
- B. Update the corporate.css file to include! important for each rule for the .newsItem
- C. class, and add the new CSS rules to the webpage by using the CSS class .newsItem.
- D. Add a CSS class named .newsItemUpdates to the webpage, add the new styles to this class, and update the HTML markup to replace the .newsItem class with this new class:<div class*"newsItemOpdates">...</div>
- E. Add the new CSS rules to the webpage by using the CSS class .newsItem, and add! important to each rule.

Answer: D

Explanation:

CSS attempts to create a balance of power between author and user style sheets. By default, rules in an author's style sheet override those in a user's style sheet.

However, for balance, an "!important" declaration (the delimiter token "!" and keyword "important" follow the declaration) takes precedence over a normal declaration. Both author and user style sheets may contain "!important" declarations, and user "!important" rules override author "!important" rules. This CSS feature improves accessibility of documents by giving users with special requirements (large fonts, color combinations, etc.) control over presentation.

Incorrect:

Not B: It is stated that you are not allowed to update the corporate.css file. Reference: Assigning property values, Cascading, and Inheritance, !important rules

NEW QUESTION 242

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 247

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

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

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

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

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

Which code segment should you add to the webpage?

- A.

```
$( 'input [name!="name"]' ) .css ( { 'background-color' : ' #E0ECF8' } ) ;
```
- B.

```
$( 'input [name=~"name"] ' ) .css ( { 'background-color' : ' #E0ECF8' } ) ;
```
- C.

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

```
$( 'input [name="$name"] ' ) .css ( { 'background-color' : '#E0ECF8' } );
```

Answer: C

Explanation:

The string pattern "*"name" matches all strings that ends with name.

NEW QUESTION 252

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

```
<label for='favoriteColor'>Favorite Color(2-10 characters):</label>
<input type='text' id='favoriteColor' />
<input type='button' value='Submit'
  onclick="testLength(document.getElementById('favoriteColor'), 2, 10)" />
```

Users must receive a message after they click the Submit button if the text entered into the favoriteColor text box is fewer than 2 characters or greater than 10 characters.

You need to implement the testLength() function. Which code segment should you use?

- ☐ A.

```
function testLength(element, min, max) {
  var uInput = element.value;
  var min = element.value.length;
  var max = element.value.slice(0, element.value.length);
  if (uInput.length >= min && uInput.length <= max) {
    return true;
  } else {
    alert("Please enter between " + min + " and " + max + " characters");
    element.focus();
    return false;
  }
}
```
- ☐ B.

```
function testLength(min, max) {
  var uInput = this.value;
  if (uInput.length >= min && uInput.length <= max) {
    return true;
  } else {
    alert("Please enter between " + min + " and " + max + " characters");
    element.focus();
    return false;
  }
}
```
- ☐ C.

```
function testLength(this) {
  var uInput = this.value;
  var min = this.value.length;
  var max = this.value.slice(0, this.value.length);
  if (uInput.length >= min && uInput.length <= max) {
    return true;
  } else {
    alert("Please enter between " + min + " and " + max + " characters");
    element.focus();
    return false;
  }
}
```
- ☐ D.

```
function testLength(element, min, max) {
  var uInput = element.value;
  if (uInput.length >= min && uInput.length <= max) {
    return true;
  } else {
    alert("Please enter between " + min + " and " + max + " characters");
    element.focus();
    return false;
  }
}
```

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

Answer: D

Explanation:

Use three arguments: element, min, max. Compare element.value with min and max.

NEW QUESTION 256

You are developing a website that helps users locate theaters in their area from a browser. You created a function named findTheaters ().

The function must:

Get the current latitude and longitude of the user's device Pass the user's location to findTheaters()

The user needs to access the geolocation information from the browser before searching for theaters.

Which code segment should you use?

- ☐ A.

```
function GetTheaters {
    theaters = findTheaters(navigator.geolocation.getCurrentPosition());
    ...
}
```
- ☐ B.

```
navigator.geolocation.getBrowserPosition(hasPosition);

function hasPosition(position) {
    theaters = findTheaters(position.coords.latitude, position.coords.longitude);
    ...
}
```
- ☐ C.

```
navigator.geolocation.getCurrentPosition(hasPosition, noPosition);

function hasPosition(position) {
    theaters=findTheaters(position.coords.latitude, position.coords.longitude);
    ...
}

function noPosition() {
    ...
}
```
- ☐ D.

```
function GetTheaters {
    theaters = findTheaters(navigator.geolocation.getLatitude(), navigator.geolocation.getLongitude());
    ...
}
```

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

Answer: C

Explanation:

* The `getCurrentPosition` method retrieves the current geographic location of the device. The location is expressed as a set of geographic coordinates together with information about heading and speed. The location information is returned in a `Position` object.

syntax of this method:

`getCurrentPosition(showLocation, ErrorHandler, options);` where

`showLocation` : This specifies the callback method that retrieves the location information. This method is called asynchronously with an object corresponding to the `Position` object which stores the returned location information.

`ErrorHandler` : This optional parameter specifies the callback method that is invoked when an error occurs in processing the asynchronous call. This method is called with the `PositionError` object that stores the returned error information.

* e example below is a simple Geolocation example returning the latitude and longitude of the user's position:

Example

```
<script>
var x = document.getElementById("demo"); function getLocation() {
if (navigator.geolocation) { navigator.geolocation.getCurrentPosition(showPosition);
} else {
x.innerHTML = "Geolocation is not supported by this browser.";
}
}
function showPosition(position) {
x.innerHTML = "Latitude: " + position.coords.latitude + "<br>Longitude: " + position.coords.longitude;
}
</script>
```

Example explained:

Check if Geolocation is supported

If supported, run the `getCurrentPosition()` method. If not, display a message to the user

If the `getCurrentPosition()` method is successful, it returns a coordinates object to the function specified in the parameter (`showPosition`)

The `showPosition()` function gets the displays the Latitude and Longitude

The example above is a very basic Geolocation script, with no error handling. Reference: [HTML5 Geolocation](#); [Geolocation `getCurrentPosition\(\)` API](#)

NEW QUESTION 257

You are developing an HTML5 web application. The application loads data from a web service by using AJAX. The application displays the data by calling the `displayData` function. The data is loaded by using the following code.

```
var ajax = $.ajax({
    url: dataUri,
});
```

You need to ensure that the data is displayed when it is successfully retrieved from the web service. Which code segment should you use?

- ☐ A. `displayData (ajax.data);`
- ☐ B. `ajax.done = function (data) {
 displayData (dataOperation);
 };`
- ☐ C. `ajax.always = function (data) {
 displayData (dataOperation);
 };`
- ☐ D. `displayData (ajax.val());`

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

Answer: B

Explanation:

The deferred.done() method accepts one or more arguments, all of which can be either a single function or an array of functions. When the Deferred is resolved, the doneCallbacks are called. Callbacks are executed in the order they were added. Since deferred.done() returns the deferred object, other methods of the deferred object can be chained to this one, including additional .done() methods.

\$.ajax

Reference: JQuery, deferred.done()

NEW QUESTION 261

You are developing a web page that performs CPU-intensive calculations. A web worker processes these calculations on a separate background thread. The process is instantiated from the web page. You need to stop the web worker process after the calculations are completed. Which two actions can you perform to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. From the web page, call the close() method.
 B. From the web worker process, call the terminate() method.
 C. From the web page, call the terminate() method.
 D. From the web worker process, call the close() method.

Answer: CD

Explanation:

Terminating a worker

If you need to immediately terminate a running worker, you can do so by calling the worker's terminate() method:

myWorker.terminate();

The worker thread is killed immediately without an opportunity to complete its operations or clean up after itself.

Workers may close themselves by calling their own close method: close();

Reference: Using Web Workers

NEW QUESTION 263

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

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



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



You need to ensure that the arrow points down when the stock rate decreases. Which CSS style should you apply?

- ☐ A.

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

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

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

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

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

Answer: D

Explanation:

transform:rotate rotate(angle)

Defines a 2D rotation, the angle is specified in the parameter Syntax: object.style.transform="rotate(7deg)"

Reference: CSS3 transform Property

NEW QUESTION 267

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 268

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 273

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

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

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

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

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

D. Option D

Answer: C

NEW QUESTION 277

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 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.

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 278

HOTSPOT

You are validating user input by using JavaScript and regular expressions. A group of pre-defined regular expressions validate two input fields:
You need to use the correct expression to validate the input.

Which expression should you insert into each function? To answer, select the appropriate options from the drop-down lists in the answer area.

Answer Area

```
function validateID(userinput) {
```

```
var IDPattern =
```

```
/^\d{1,2}(\-|V|_|)\d{1,2}\1\d{4}$/;  
/^[0-9]{3}\-?[0-9]{2}\-?[0-9]{4}$/;  
/^[0-9]{0}\^[0-9]{2}\^[0-9]{4}$/;  
/^[a-zA-Z0-9-]+\@[a-zA-Z0-9-]+\.[a-zA-Z]{2,4}$/;  
/^[0-9]{3}+\@[a-zA-Z0-9-]+\.[0-9]{2,4}$/;
```

```
return IDPattern.test ( userinput ) ;
```

```
}
```

```
function validateEmail ( userinput) {
```

```
var emailPattern =
```

```
/^\d{1,2}(\-|V|_|)\d{1,2}\1\d{4}$/;  
/^[0-9]{3}\^[0-9]{2}\^[0-9]{4}$/;  
/^[0-9]{0}\^[0-9]{2}\^[0-9]{4}$/;  
/^[a-zA-Z0-9-]+\@[a-zA-Z0-9-]+\.[a-zA-Z]{2,4}$/;  
/^[0-9]{3}+\@[a-zA-Z0-9-]+\.[0-9]{2,4}$/;
```

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

```
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```
function validateID(userinput) {
```

```
var IDPattern =
```

```
/^\d{1,2}(\-|V|_|)\d{1,2}\1\d{4}$/;  
/^[0-9]{3}\-?[0-9]{2}\-?[0-9]{4}$/;  
/^[0-9]{0}\^[0-9]{2}\^[0-9]{4}$/;  
/^[a-zA-Z0-9-]+\@[a-zA-Z0-9-]+\.[a-zA-Z]{2,4}$/;  
/^[0-9]{3}+\@[a-zA-Z0-9-]+\.[0-9]{2,4}$/;
```

```
return IDPattern.test ( userinput ) ;
```

```
}
```

```
function validateEmail ( userinput) {
```

```
var emailPattern =
```

```
/^\d{1,2}(\-|V|_|)\d{1,2}\1\d{4}$/;  
/^[0-9]{3}\^[0-9]{2}\^[0-9]{4}$/;  
/^[0-9]{0}\^[0-9]{2}\^[0-9]{4}$/;  
/^[a-zA-Z0-9-]+\@[a-zA-Z0-9-]+\.[a-zA-Z]{2,4}$/;  
/^[0-9]{3}+\@[a-zA-Z0-9-]+\.[0-9]{2,4}$/;
```

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

```
}
```

NEW QUESTION 280
HOTSPOT

You have the following markup.

```
<form id= "formLogin">
  <input type= "text" id= "fieldLoginName" />
  <input type= "password" id= "fieldPassword" value= "MySecretPassword" />
  <input type= "submit" onclick "Validation ();" />
</form>
<script>
  $(document).ready (function ( ) {
    var fldPassword = document.getElementById("fieldPassword") ;
    fldPassword.value = "MyNewSecretPassword" ;
    alert(fldPassword.value) ;
  });
</script>
```

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

Answer Area

Statements	Yes	No
A default value is set for the filedPassword field.	<input type="radio"/>	<input type="radio"/>
As a user types in the fieldPassword field, the typed characters will be masked.	<input type="radio"/>	<input type="radio"/>
When the page loads, an alert will be displayed that shows the current value of the fieldPassword field as MyNewSecretPassword.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
A default value is set for the filedPassword field.	<input checked="" type="radio"/>	<input type="radio"/>
As a user types in the fieldPassword field, the typed characters will be masked.	<input checked="" type="radio"/>	<input type="radio"/>
When the page loads, an alert will be displayed that shows the current value of the fieldPassword field as MyNewSecretPassword.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 281

You need to parse an XML formatted string. Which object should you use?

- A. Map
- B. DataView

C. DOMParser
D. JSON

Answer: C

NEW QUESTION 282

Which CSS3 code segment styles the text color of EM elements to be red and semi-transparent?

- A. em { color: #ff00007f; }
- B. em { color: rgba (255,0,0,0.5); }
- C. em { color: rgba (255,0,0,0.127); }
- D. em { color: rgba (100%,0%,0%, 50%); }

Answer: B

Explanation:

References:

http://www.w3schools.com/cssref/css_colors_legal.asp

NEW QUESTION 286

DRAG DROP

You have a stylesheet for an existing website.

The website contains the following HTML markup.

```
<div id= "header">  
  <ul class= "menuItems">  
    <li>HOME</li>  
    <li>PRODUCTS</li>  
    <li>ABOUT US</li>  
  </ul>  
</div>
```

You need to ensure that the elements are aligned horizontally. You write the following CSS markup in the stylesheet.

```
.menuItems li  
{  
  Target 1: Target 2;  
}
```

How should you complete the markup? 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.

Answer Area

background- position

block

display

grid

inline

list-style

table

Target 1:

Target 2:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:
<http://learn.shayhowe.com/html-css/creating-lists/>

NEW QUESTION 290

DRAG DROP

You are creating an application by using HTML5 and CSS3. The styles for the pages are derived from five style sheets. You need to order the style sheets by greatest CSS rule weight to lowest CSS rule weight. In which order will the five style sheets be applied by the browser? To answer, move the style sheet types from the list of style sheet types to the answer area and arrange them in the order in which the browser will apply them. The first style sheet that the browser will apply must appear at the top of the list in the answer area.

Actions

user agent style sheets

user important style sheets

author normal style sheets

author important style sheets

user normal style sheets

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
References:
https://www.w3.org/TR/css-cascade-3/#importance

NEW QUESTION 294
You have the following HTML markup.

```
<input name= "object1x">  
  <input name= "object1y">  
  <input name= "object2x">
```

For all of the fields that have names ending with the letter x, you need to set the value to value1. Which code line should you use?

- A. S("input [name\$= 'x'] ").html ("value1");
- B. S("#input [name\$= 'x'] ").val ("value1");
- C. S("input [name\$= 'x']").val ("value1");
- D. S("#input [name\$= 'x']").html ("value1");

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

Answer: C

NEW QUESTION 295
Which CSS3 code fragment will style only the external links in an HTML document?

- A. a: visited {font-weight: bold;}
- B. a [href\$= "http://"] {font-weight: bold;}

- C. a {font-weight: bold;}
D. a [href^= "http://"] {font-weight : bold;}

Answer: D

NEW QUESTION 297

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

NEW QUESTION 301

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.asmx/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(newsStockRate);  
}  
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 303

You are developing a website that helps users locate restaurants in their area from a browser. You created a function named findRestaurants(). The function must:

- Get the current latitude and longitude of the user's device
- Pass the user's location to findRestaurants()

You must ensure that the application accesses the geolocation information from the device before searching for restaurants.

Which code segment should you use?

A. navigator. geolocation. getCurrentPosition (GetRestaurants);

```
function GetRestaurants {
  restaurants = findRestaurants (navigator.geolocation. getCurrentPosition());
  ...
}
```

B. navigator. geolocation. getCurrentPosition (hasPosition, noPosition);

```
function hasPosition (position) {
  restaurants = findRestaurants (position.coords.latitude, position. coords.longitude);
  ...
}
function noPosition() {
  ...
}
```

C. navigator. geolocation. getCurrentPosition (GetRestaurants);

```
function GetRestaurants {
  restaurants = findRestaurants (navigator.geolocation. getLatitude (),
navigator.geolocation.getLongitude() );
  ...
}
```

D. navigator. geolocation. getBrowserPosition (hasPosition);

```
function hasPosistion (position) {
  restaurants = findRestaurants (position.coords.latitude, position.coords.longitude);
  ...
}
```

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

Answer: B

Explanation:

References:

<https://developer.mozilla.org/en-US/docs/Web/API/Geolocation/getCurrentPosition>

NEW QUESTION 306

DRAG DROP

You are developing a web application.

You need to create an input field to provide users with the ability to select a product from a drop- down list. The solution must meet the following requirements:

You write the following HTML markup.

```
<body>
  Product: <input name= 'product' list= 'product_list'>
    <Target 1 id= 'Target 2'>
      <Target 3 value = 'Car'>
      <Target 4 value = 'Boat'>
    </Target 5>
</body>
```

How should you complete the markup? To answer, drag the appropriate code elements to the correct targets. 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

datalist

option

product

product_list

select

Target 1:

Target 2:

Target 3:

Target 4:

Target 5:

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

Code Elements

datalist

option

product

product_list

select

Target 1:

select

Target 2:

product_list

Target 3:

option

Target 4:

option

Target 5:

select

NEW QUESTION 310

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 313

You have the following code:

```
var objStr = "[1, 2, 3, 4]";
```

You need to convert objStr into an array. Which line of code should you use?

- A. var jsObject = Array.bind(objStr);
- B. var jsObject = Array.valueOf(objStr);
- C. var jsObject = JSON.parse(objStr);
- D. var jsObject = \$.makeArray(objStr);

Answer: C

Explanation:

https://www.w3schools.com/js/js_json_parse.asp

NEW QUESTION 315

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 317

Which CSS3 code fragment styles an H2 element only if it is a direct child of a DIV element?

- A. h2 > div {background-color: #900;}
- B. div, h2 {background-color: #900;}
- C. div {background-color: #900;}h2 {background-color: #900;}
- D. div > h2 {background-color: #900;}

Answer: D

Explanation:

<https://www.w3.org/TR/CSS21/selector.html%23id-selectors>

NEW QUESTION 320

You have a web page that contains the following markup.

```
<link rel="stylesheet" href="css1.css" />
```

You need to ensure that css1.css is used only when the current browser width is less than 800px. Which markup should you add to the web page?

- A. @media="(max-width: 800px)"
- B. @max-width="800px"
- C. media="(max-width: 800px)"
- D. max-width="800px"

Answer: A

NEW QUESTION 322

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://css-tricks.com/almanac/properties/t/transition/>
https://www.w3schools.com/cssref/css3_pr_transition.asp

NEW QUESTION 324

DRAG DROP
You have the following markup:

```
<style>
    .yellow {
        background-color: yellow;
    }
    .yellowborder {
        border-color: yellow;
    }
    .border {
        border:dashed;
    }
</style>
<div id="yellowDiv" class="yellow"> My Yellow Content</div>
```

You need to add a dashed border programmatically to the div. You write the following code.

```
document.Target1(Target 2).className += Target 3;
```

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

- "border"
- " border"
- getElementsByClassName
- getElemetById
- "yellow"
- " yellow"
- "yellowDiv"
- " yellowDiv"

Answer Area

Target 1:

Target 2:

Target 3:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
getElementById "yellowDiv" "yellow"
https://www.w3schools.com/jsref/prop_style_border.asp

NEW QUESTION 325

DRAG DROP
You have the following HTML markup:

```
<div id="container">
    <form id="form1">
        Select Shipping:
        <select id="shippingType">
            <option>EXPRESS</option>
            <option>GROUND</option>
        </select>
    </form>
</div>
```

You need to create a JavaScript to add an additional option named Air to the shippingType element. You write the following code.

```
function addElements() {

    var option = document.getElementById("shippingType");
    Target 1
    newOption.text = "Air";
    Target 2}
```

How should you complete the code? To answer, drag the appropriate lines of code to the correct targets in the answer are a. Each line may be used once, more than once, or not at all. You may drag the split bar between panes or scroll to view content.

Lines of Code

```
option.appendChild(newOption);
```

```
option.appendChild(newOption.text);
```

```
option.innerHTML = newOption.text
```

```
var newOption = document.createElement("option");
```

```
var newOption = document.createAttribute("option");
```

```
var newOption = document.createElementNS("option");
```

• • • •

Answer area

Target 1:

Target 2:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Target 1:

Var newOption = document.createElement ("option") ; Target 2:

Option.appendChild (newOption.text) ;

NEW QUESTION 329

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 330

You are creating a JavaScript function that displays the name of a web application. You declare the following button element.

```
<input type="button" id="Contact" value="Contact" />
```

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

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

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

- ☐ A.

```
var button = document.getElementById("Contact");
ScriptEngine.call(button,Contact());
```
- ☐ B.

```
var button = document.getElementById("Contact");
ScriptEngine.bind(button,Contact());
```
- ☐ C.

```
var button = document.getElementById("Contact");
button.addEventListener("click",Contact);
```
- ☐ D.

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

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

Answer: C

Explanation:

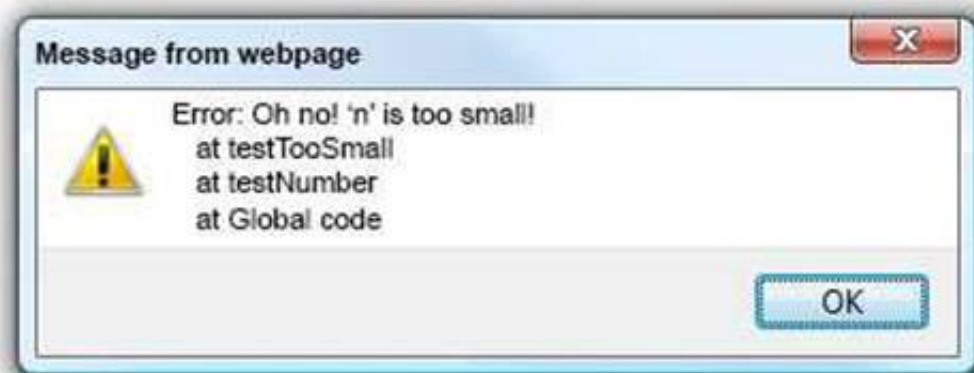
https://www.w3schools.com/jsref/met_element_addeventlistener.asp

NEW QUESTION 335

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

```
01  funtion testNumber() {
02  testTooSmall(1);
03  }
04  function testTooSmall(n) {
05  if (n < 2)
06  throw "Oh no! 'n' is too small!"
07  return true;
08  }
09  try {
10  testNumber();
11  }
12  catch (e) {
13  alert(e.stack);
14  }
```

You execute the code and you receive an alert that displays the following message: "Undefined". You need to ensure that the alert displays as shown:



What should you do?

- A. Replace line 13 with the following code: `alert(e.message);`

- B. Replace line 06 with the following code: `throw new eval("Oh no! 'n' is too small!")`
 C. Replace line 13 with the following code: `alert(e);`
 D. Replace line 06 with the following code: `throw new Error("Oh no! 'n' is too small!")`

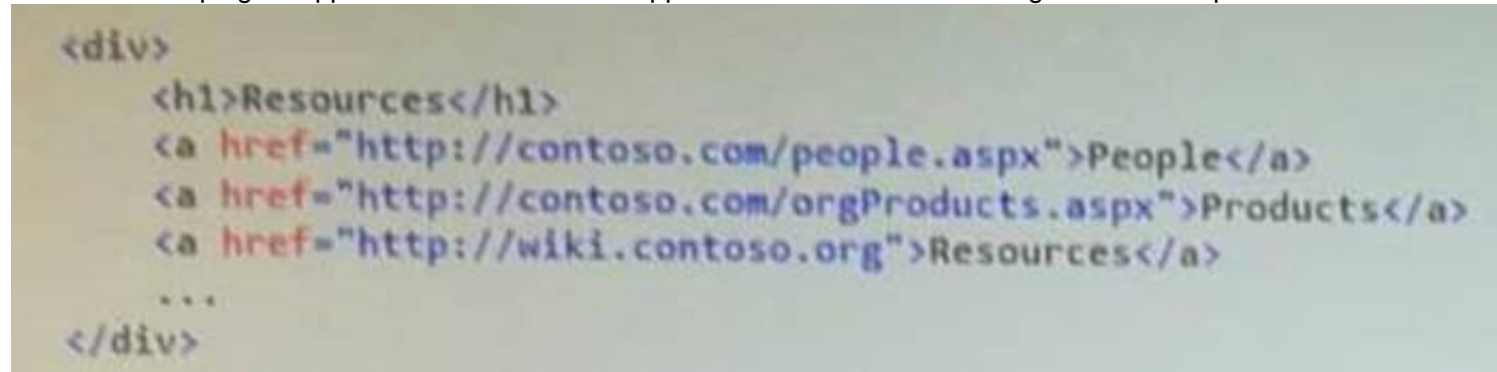
Answer: D

Explanation:

<http://www.javascriptkit.com/javatutors/trycatch2.shtml>

NEW QUESTION 340

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 344

You have the following markup.



```
<div style="display:flex;height:300px;background-color:red">
  <div style="height:100px;background-color:yellow">
    Yellow div text
  </div>
</div>
```

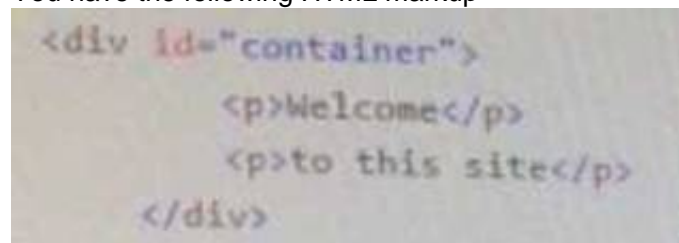
You need to ensure that the yellow div is centered in the red div. What should you do?

- A. Add the following code to the red di
 B. `align-content:center`
 C. Add the following code to the red div: `Margin:auto`
 D. Add the following code to the Yellow di
 E. `align-content:center`
 F. Add the following code to the Yellow div: `Margin:auto`

Answer: C

NEW QUESTION 346

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

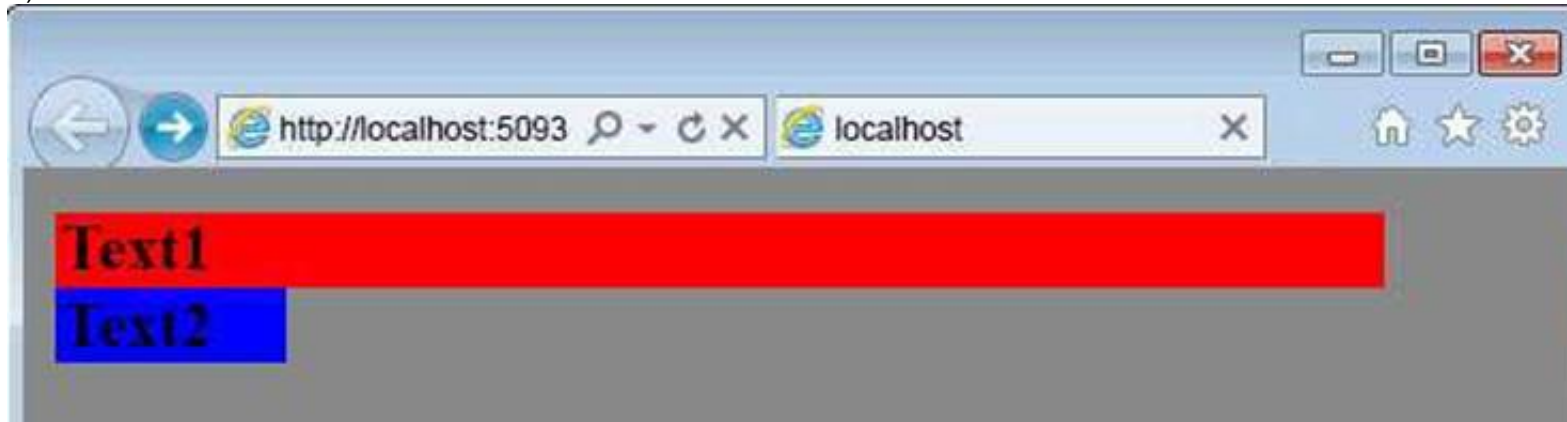
NEW QUESTION 348

You have the following HTML code.

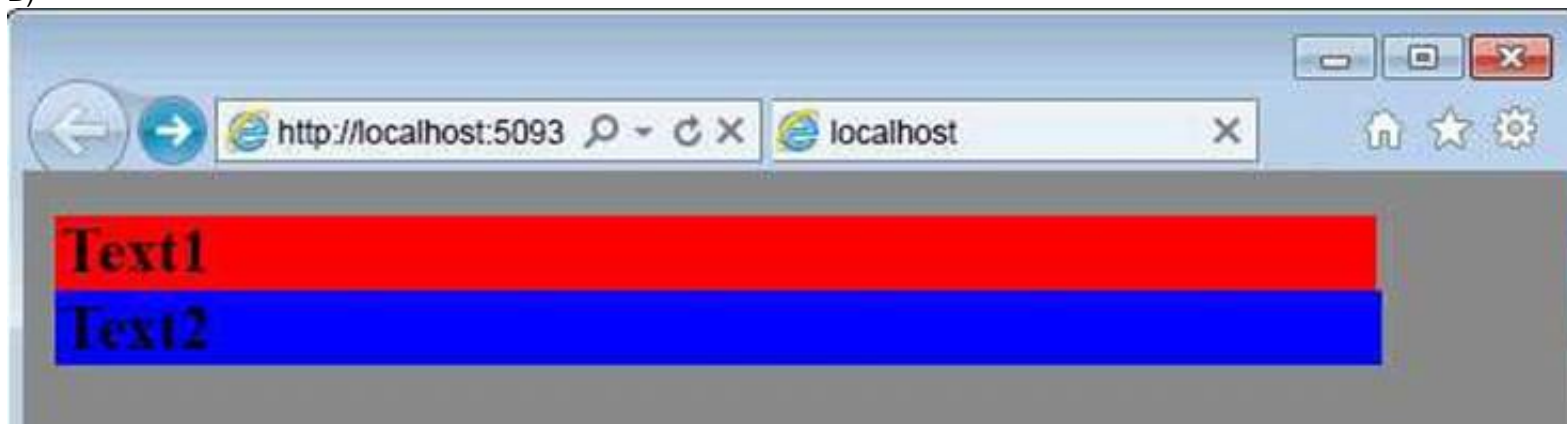
```
<html>
<body style="background-color:grey">
  <span style="background-color:red; width:50%">
    Text1
  </span>
  <div style="background-color:blue; width:50%">
    Text2
  </div>
</body>
</html>
```

You need to identify how Text1 and Text2 will be displayed. What should you identify?

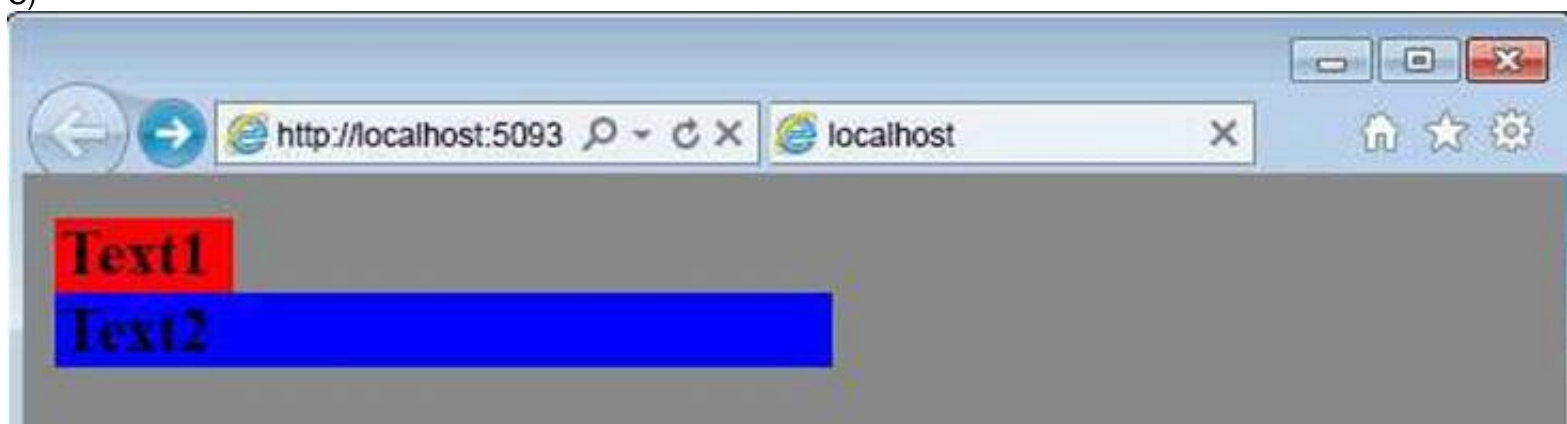
A)



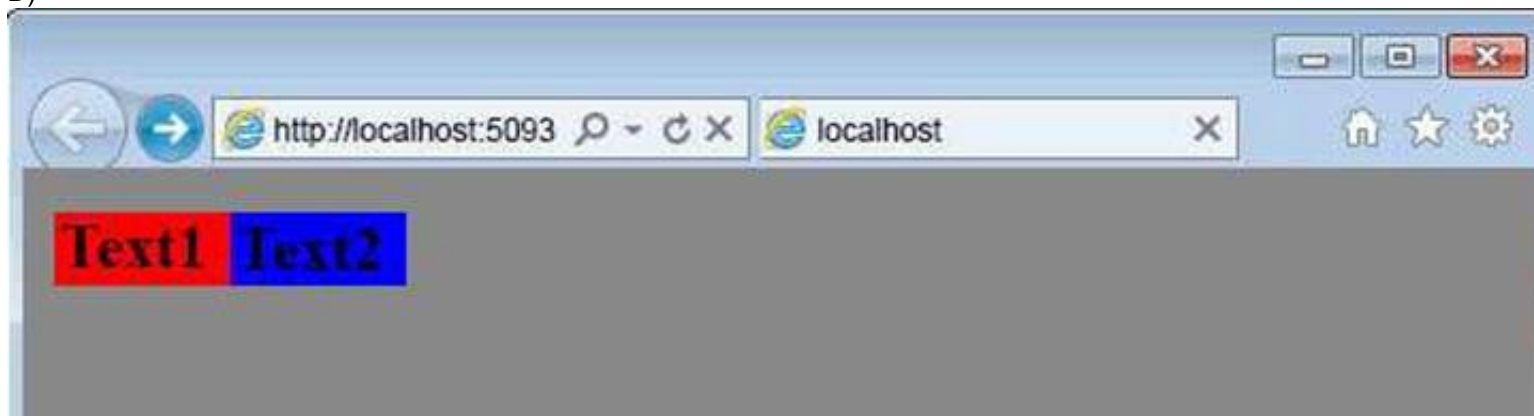
B)



C)



D)



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

Answer: D

Explanation:

References: https://www.quackit.com/html_5/tags/html_span_tag.cfm https://www.quackit.com/html_5/tags/html_body_tag.cfm
https://www.quackit.com/html_5/tags/html_div_tag.cfm

NEW QUESTION 352

DRAG DROP

You have the following HTML markup.

```
<div>
  <canvas id="canvas1" width="500" height="500">
    Your browser doesn't support HTML5.
  </canvas>
  <button id="btnDraw" onclick="drawOnCanvas()">Draw</button>
</div>
```

You need to ensure that when a user presses btnDraw, a rectangle that has the following characteristics is drawn:

The y-coordinate must equal 10. The x-coordinate must equal 10.

The rectangle must have a height and width of 100. The solution must use local variables only.

Which five JavaScript code segments should you use? Develop the solution by selecting and arranging the required code blocks in the correct order.

Code segments

```
var context = canvas.getCon-
text('2d');
```

```
}
```

```
var context = canvas.getCon-
text('3d');
```

```
context.fillRect(100, 100,
10, 10);
```

```
var canvas = document.get-
ElementById('canvas1');
```

```
context.fillRect(10, 10, 100,
100);
```

```
function drawOnCanvas() {
```

```
var canvas = document.get-
ElementByName ('canvas1');
```

Answer Area



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```
function drawOnCanvas() {
```

```
var canvas = document.get-
ElementById('canvas1');
```

```
var context = canvas.getCon-
text('2d');
```

```
context.fillRect(10, 10, 100,
100);
```

```
}
```

NEW QUESTION 356

.....

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