

- **Vendor: Microsoft**
- **Exam Code: 70-480**
- **Exam Name: Programming in HTML5 with JavaScript and CSS3 Exam**
- **Question 1 -- Question 30**

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QUESTION 1

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

```
<ul>
  <li><a href="">Home</a></li>
  <li><a href="">Sales</a></li>
  <li><a href="">Operations</a></li>
</ul>
```

Standards-compliant screen readers must be able to identify the links contained within the navigation structure automatically.

You need to create the navigation link structure in the page.

With which container tags should you wrap the existing markup?

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

Answer: C

Explanation:

http://www.w3schools.com/tags/tag_nav.asp

QUESTION 2

Hotspot Question

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

You have the following requirements:

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

You need to develop the site to meet the requirements.

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

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

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

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

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

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

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

Answer:

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

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

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

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

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

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

QUESTION 3

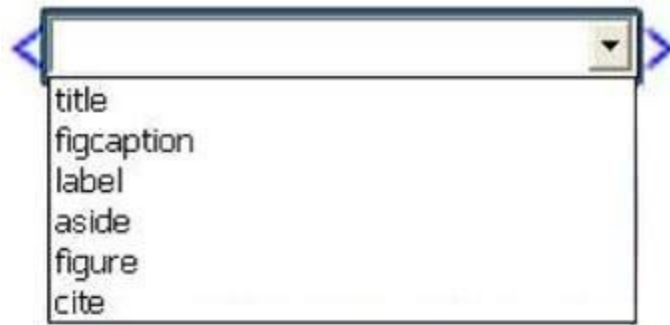
Hotspot Question

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

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

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

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



``

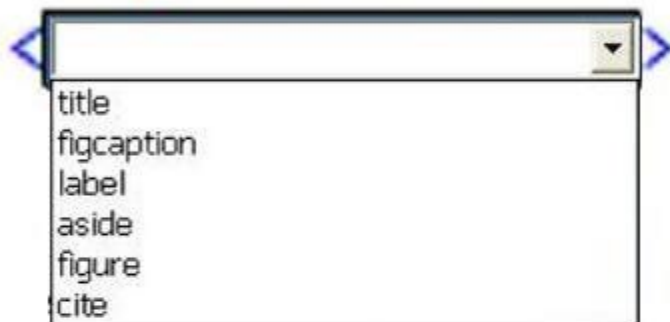
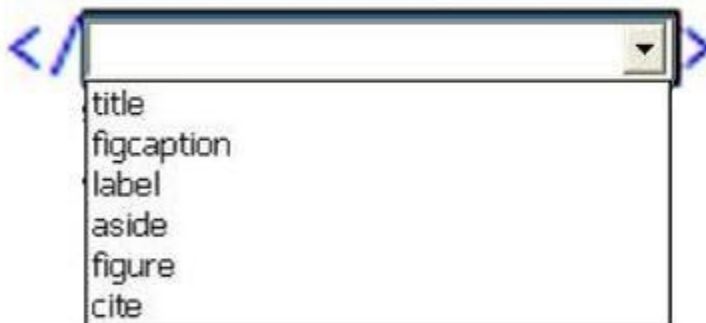
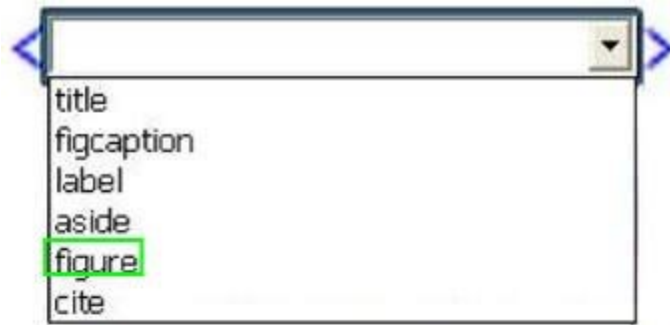


Image description



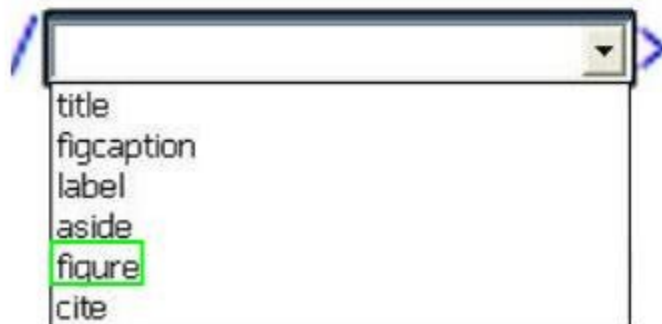
Answer:



``



Image description



QUESTION 4

You are creating a JavaScript object that represents a customer.
You need to extend the Customer object by adding the GetCommission() method.

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

Which code segment should you use?

- ☐ A.

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

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

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

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

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

Answer: D

QUESTION 5

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

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

When a user selects the check box, an input text box must be added to the page dynamically.

You need to ensure that the text box is added.

Which function should you use?

- ☐ A.

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

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

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

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

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

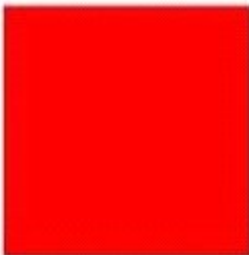
Answer: B

QUESTION 6

Hotspot Question

An HTML page has a canvas element.

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



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

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

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

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

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

Answer:


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

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

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

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

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

QUESTION 7

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

```
<div>
Logo:<br>
<div id="logo">
</div>
</div>
```

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

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

Choose two.)

A. `document.getElementById("logo").style.position = "relative";`

- B. `document.getElementById("logo").Style.top = "5px";`
- C. `document.getElementById("logo").style.top = "-5px";`
- D. `document.getElementById("logo").style.position = "absolute";`

Answer: AB

Explanation:

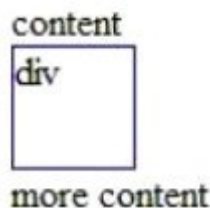
http://www.w3schools.com/cssref/pr_class_position.asp

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

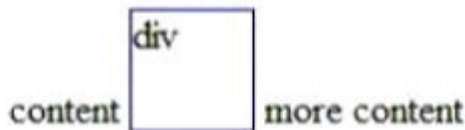
QUESTION 8

You are developing a web page by using HTML5 and CSS3. The page includes a `<div>` tag with the ID set to `validate`.

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



The page must be rendered so that the `<div>` tag is not forced to be separate from the other content. The following graphic shows the correctly rendered output.



You need to ensure that the page is rendered to meet the requirement. Which line of code should you use?

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

Answer: A

Explanation:

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

QUESTION 9

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:

<http://help.dottoro.com/ljeuqqoq.php>

<http://help.dottoro.com/ljinxrmt.php>

QUESTION 10

Hotspot Question

You are creating a web worker for an HTML5 application.

The following tasks must be performed from within the web worker:

- Register an event listener for the web worker
- Start and stop the web worker

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

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

```
self.postMessage('Worker: ' + data);
```

```
self.postMessage('Worker: ' + data);
```

```
self.addEventListener('message', function(event));
```

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

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

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

```
var data = event.data;
```

```
switch (data.cmd) {
```

```
case 'start':
```

```
self.postMessage('Worker: ' + data);
```

```
self.postMessage('Worker: ' + data);
```

```
self.addEventListener('message', function(event));
```

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

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

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

```
break;
```

```
case 'stop':
```

```
self.postMessage('Worker: ' + data);
```

```
self.postMessage('Worker: ' + data);
```

```
self.addEventListener('message', function(event));
```

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

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

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

```
break;
```

```
default:
```

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

```
default:
```

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

```
};
```

```
}, false);
```

Answer:

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

```
var data = event.data;
```

```
switch (data.cmd) {
```

```
  case 'start':
```

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

```
    break;
```

```
  case 'stop':
```

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

```
    break;
```

```
  default:
```

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

```
  default:
```

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

```
};
```

```
}, false);
```

QUESTION 11

Hotspot Question

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:

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<http://www.passleader.com/70-480.html>

- The function must return "Number" if the object is a number.
- The function must return "String" if the object is a string.
- The function must return "Unknown" if the object is neither a number nor a string.

You need to implement the function to meet the requirements.

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

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

Answer:

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

QUESTION 12

You need to test the value of the following variable in JavaScript.

```
var length = "75";
```

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

You need to use the statement that meets this requirement.

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

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

Answer: BD

QUESTION 13

You are developing an application that uses a third-party JavaScript library named `doWork()`. The library occasionally throws an "object is null or undefined" error with an error code of -2146823281.

The application must:

- Extract and handle the exceptions thrown by `doWork()`
- Continue normal program execution if other exceptions occur

You need to implement the requirements.

Which code segment should you use?

- ☐ A.

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

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

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

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

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

Answer: C

QUESTION 14

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

QUESTION 15

Hotspot Question

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

You have the following requirements:

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

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

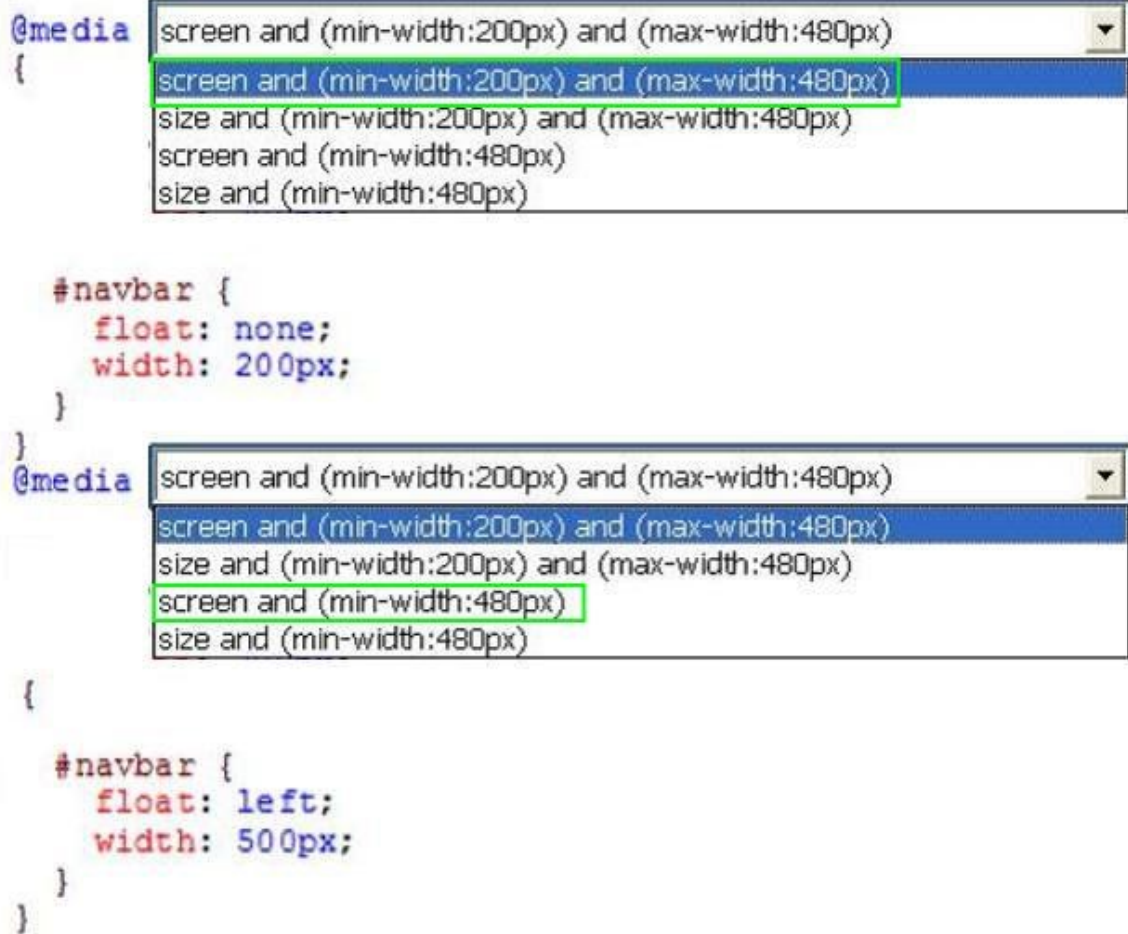
How should you build the code? (To answer, select the appropriate options from the drop-down lists in the answer area.)

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

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

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

Answer:

**QUESTION 16**

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

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

Answer: C

Explanation:

http://www.w3schools.com/cssref/pr_text_text-transform.asp

none, capitalize, uppercase, lowercase and inherit

Example

Transform text in different elements:

```
h1 {text-transform:uppercase;}
```

```
h2 {text-transform:capitalize;}
```

```
p {text-transform:lowercase;}
```

QUESTION 17

Drag and Drop Question

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>
```

Answer:

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

QUESTION 18

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
oluptate velit
rinda ad eos et accusam dignissim qui blandit est praes
t occae. Et harum deraud facilis est er expedit distinct.
est congue nihil impedit doming id Lorem ipsum dolor



qui officia de
lookum like
liber te cons
tam neque pi
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-side: both;
- B. -ms-wrap-side: clear;
- C. -ms-wrap-side: maximum;
- D. -ms-wrap-side: auto;

Answer: A

Explanation:

[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/>

QUESTION 19

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

You have the following requirements:

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

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

Which code segment should you use?

- ☐ A.

```
$(":head").addClass('underlineMe');  
$(":head").css({ color: 'red' });
```
- ☐ B.

```
$("h1").css({ color: 'red' });  
$("h1").addClass('underlineMe');
```
- ☐ C.

```
$("h2").css({ color: 'red' });  
$("h2").addClass('underlineMe');
```
- ☐ D.

```
$(":header").css({ color: 'red' });  
$(":header").addClass('underlineMe');
```

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

Answer: D

Explanation:

http://www.w3schools.com/jquery/sel_header.asp

QUESTION 20

Hotspot Question

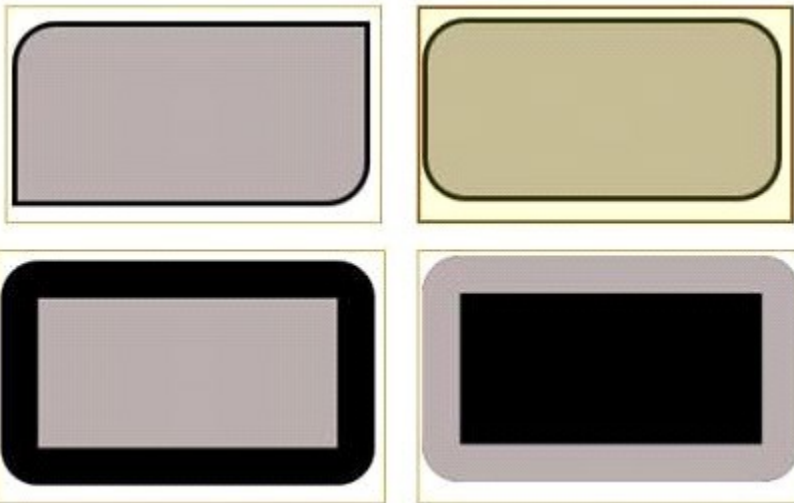
You are developing an HTML5 application for a company. You apply the following style to a DIV

element on a page.

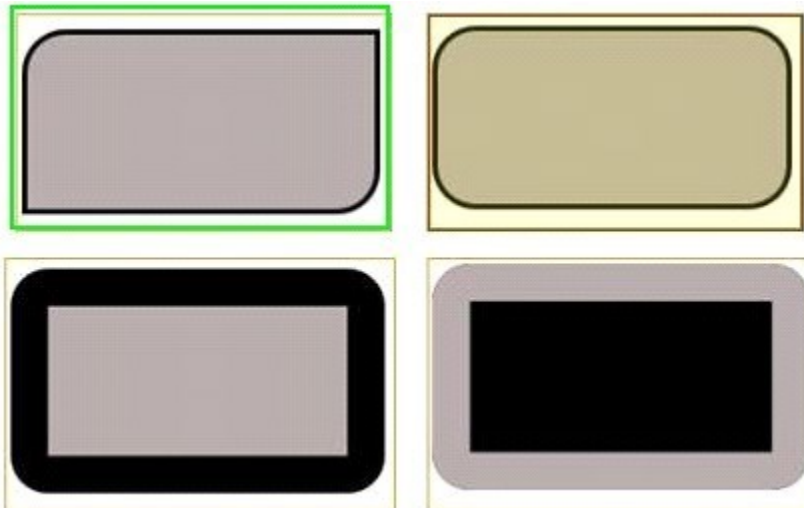
```
div
{
  border:3px solid;
  background:#b6aaaa;
  width:200px;
  height:100px;
  top: 10%;
  left:10%;
  border-radius:25px 0px 25px 0px;
}
```

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.)



Answer:



QUESTION 21

Drag and Drop Question

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;  
    }  
}
```

Answer:

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

QUESTION 22

Drag and Drop Question

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

Answer:



QUESTION 23

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

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

Answer: ABCD

QUESTION 24

You would like to create a Windows 8 application by using HTML5, JavaScript, and CSS3. Which of the following Visual Studio 2012 editions can you use? (Choose all that apply.)

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

Answer: ABCE

QUESTION 25

You would like to create web applications and Windows 8 Windows Store applications by using HTML5, JavaScript, and CSS3, but while you're learning, you don't want to buy Visual Studio 2012. Which of the following Visual Studio 2012 editions can you use for free to accomplish your goal?

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

Answer: D

QUESTION 26

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

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

Answer: CD

QUESTION 27

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

QUESTION 28

Hotspot Question

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

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

You need to implement this functionality.

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


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

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

Answer:

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

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

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

QUESTION 29

You are developing a web page that consumes a Windows Communication Foundation (WCF) service. The page includes the following code segment.

```
var xhr = new XMLHttpRequest() ;
```

The page uses the `xhrHandler()` method to listen for changes to the request status of the WCF service calls. It uses the `xmlToJavaScript()` method to convert the response from the WCF service to a JavaScript object.

The `xhrHandler()` method must be called automatically each time the request status changes.

You need to add the event handler to the request object.

Which line of code should you use?

- A. `xhr.onCallback = xhrHandler;`
- B. `xhr.onreadystatechange = xhrHandler;`
- C. `xhr.readyState = xhrHandler;`

D. `xhr.status = xhrHandler;`

Answer: B

Explanation:

<http://mrfwebdesign.blogspot.ca/2008/11/xmlhttprequest-xhr.html>

QUESTION 30

Drag and Drop Question

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':
```

```
    self.postMessage('Start: ' + data.cmd + data.msg);
```

```
    break;
```

```
  case 'stop':
```

```
    self.postMessage('Stop: ' + data.cmd + data.msg);
```

```
    break;
```

```
  default:
```

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

```
};
```

```
}, false);
```

Answer:

```
self.postMessage('Worker: ' + data);
```

```
self.addEventListener('message', function(event));
```

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

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

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

```
self.addEventListener('message', function(event));
```

```
var data = event.data;
```

```
switch (data.cmd) {
```

```
  case 'start':
```

```
    self.postMessage('Worker: ' + data);
```

```
    break;
```

```
  case 'stop':
```

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

```
    break;
```

```
  default:
```

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

```
};
```

```
}, false);
```

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