70-480 Q&As

Programming in HTML5 with JavaScript and CSS3

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QUESTION 1

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;
}
```

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A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

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

The instance of 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;

References: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Operators/instanceof

QUESTION 2

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);
}
```

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A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

We create a now div element with the textbox.

We then use appendChild() method appends this node as the last child the input node divname.

References:

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

QUESTION 3

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

A customer must enter a valid age in the text box prior to submitting the form.

You need to add validation to the control.

Which code segment should you use?

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

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

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

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

A. Option A

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B. Option B

C. Option C

D. Option D

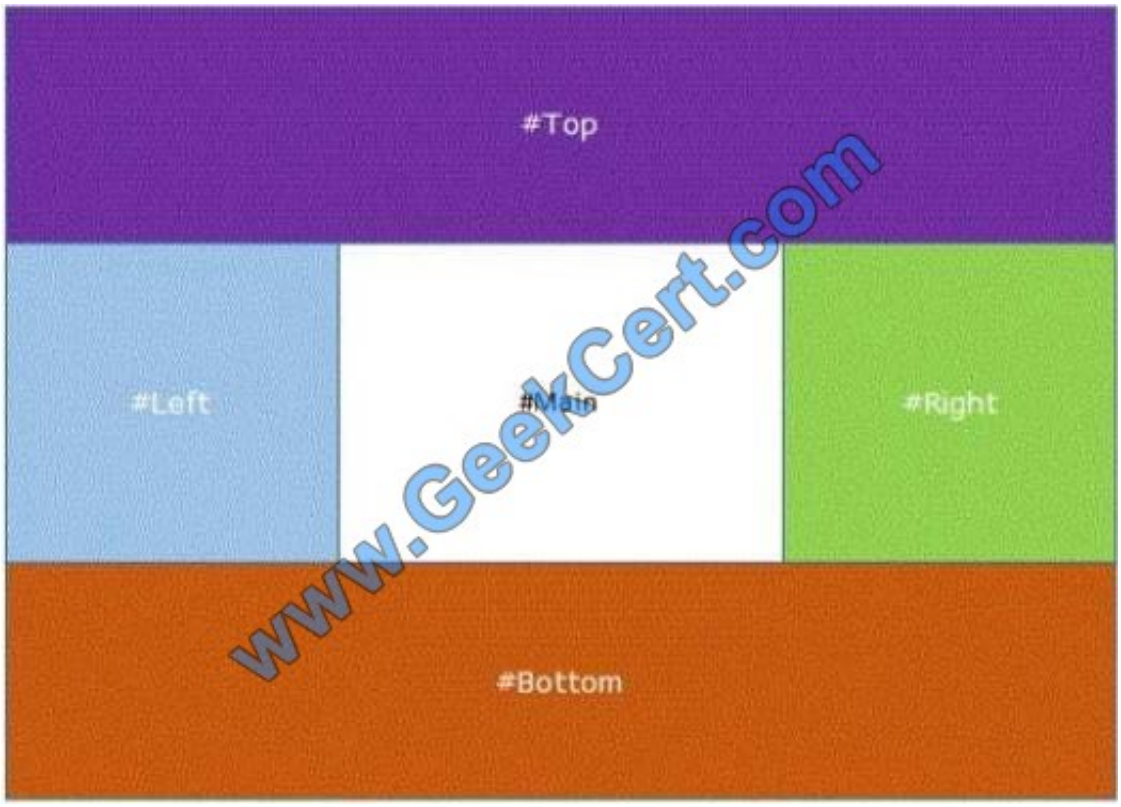
Correct Answer: D

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

QUESTION 4

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

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;}
```

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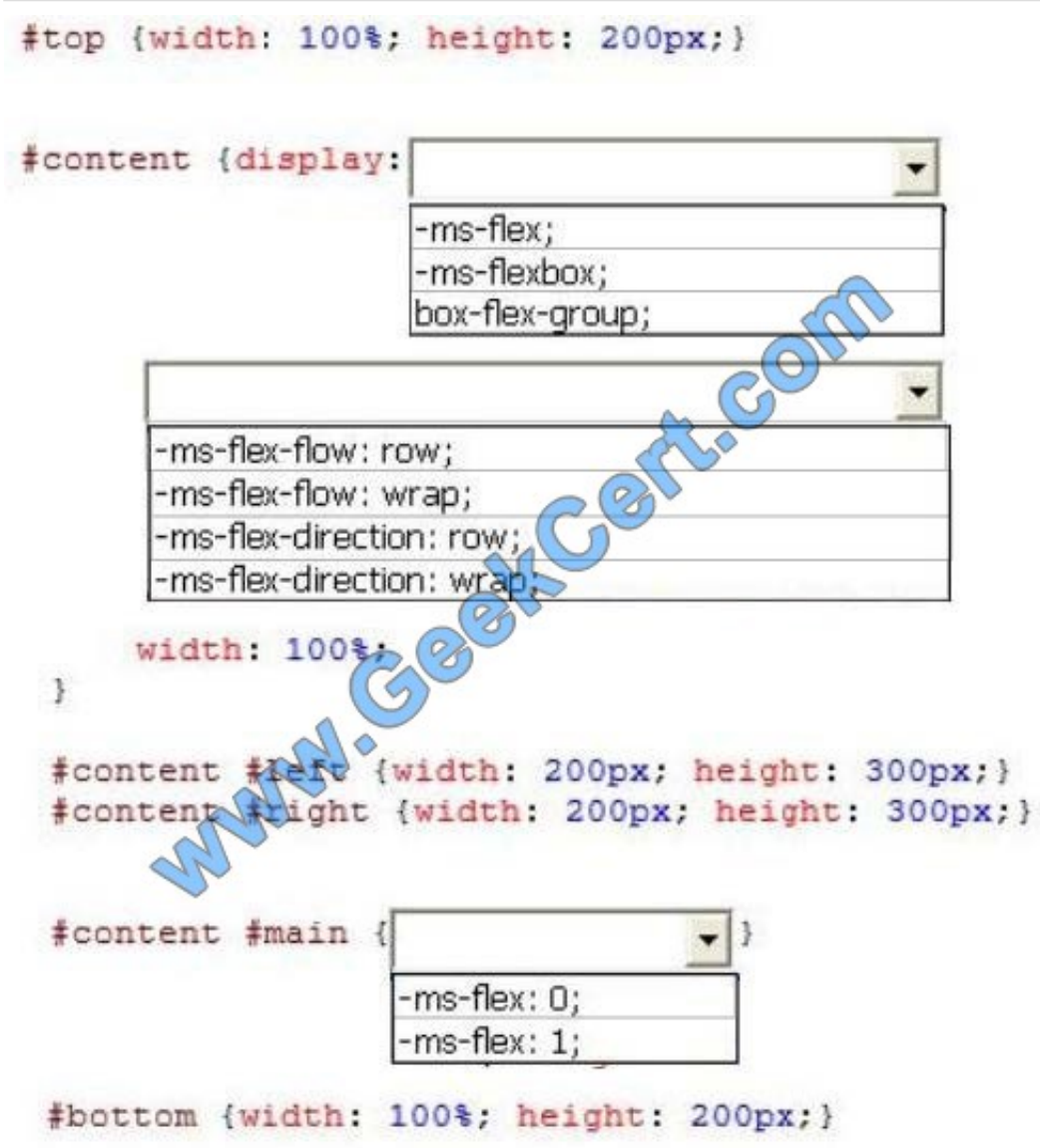
Hot Area:



Correct Answer:

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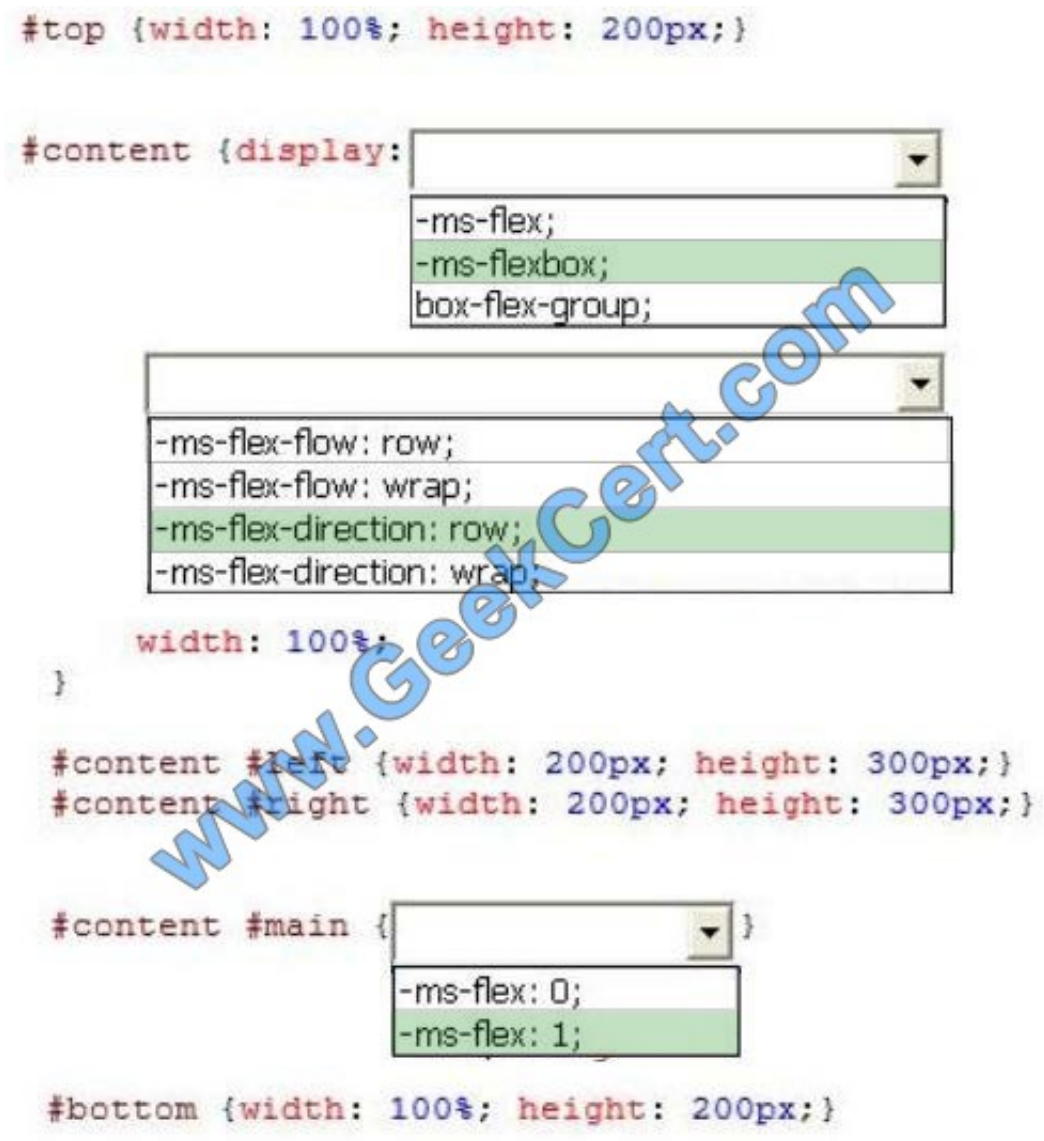

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* -ms-flexbox

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.

References:

https://technet.microsoft.com/en-us/learning/hh673531(v=vs.94).aspx

QUESTION 5

HOTSPOT

You have the following markup.

```
<style>
div {
      width: 200px;
      height: 50px;
      border: 1px dotted black;
      overflow: auto;
      display: flex;
      flex-direction: column;
      flex-wrap: wrap;
}
</style>
<div></div>
```

For each of the following statements, select Yes if the statement is true. Otherwise, select False.

NOTE: Each correct selection is worth one point.

Hot Area:

Statements	Yes	No
If the content of the `div` element is wider than 200px, the `div` element will display a horizontal scroll bar.	○	○
If the content of the `div` element has a height that is greater than 50px, the `div` element will resize automatically to display all the content.	○	○
If multiple `container` elements are added to the `div` element, the `container` elements will display as rows if they are larger than the `div` element.	○	○

Correct Answer:

Statements	Yes	No
If the content of the `div` element is wider than 200px, the `div` element will display a horizontal scroll bar.	○	○
If the content of the `div` element has a height that is greater than 50px, the `div` element will resize automatically to display all the content.	○	○
If multiple `container` elements are added to the `div` element, the `container` elements will display as rows if they are larger than the `div` element.	○	○

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QUESTION 6

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

The application must find out a user\\'s location.

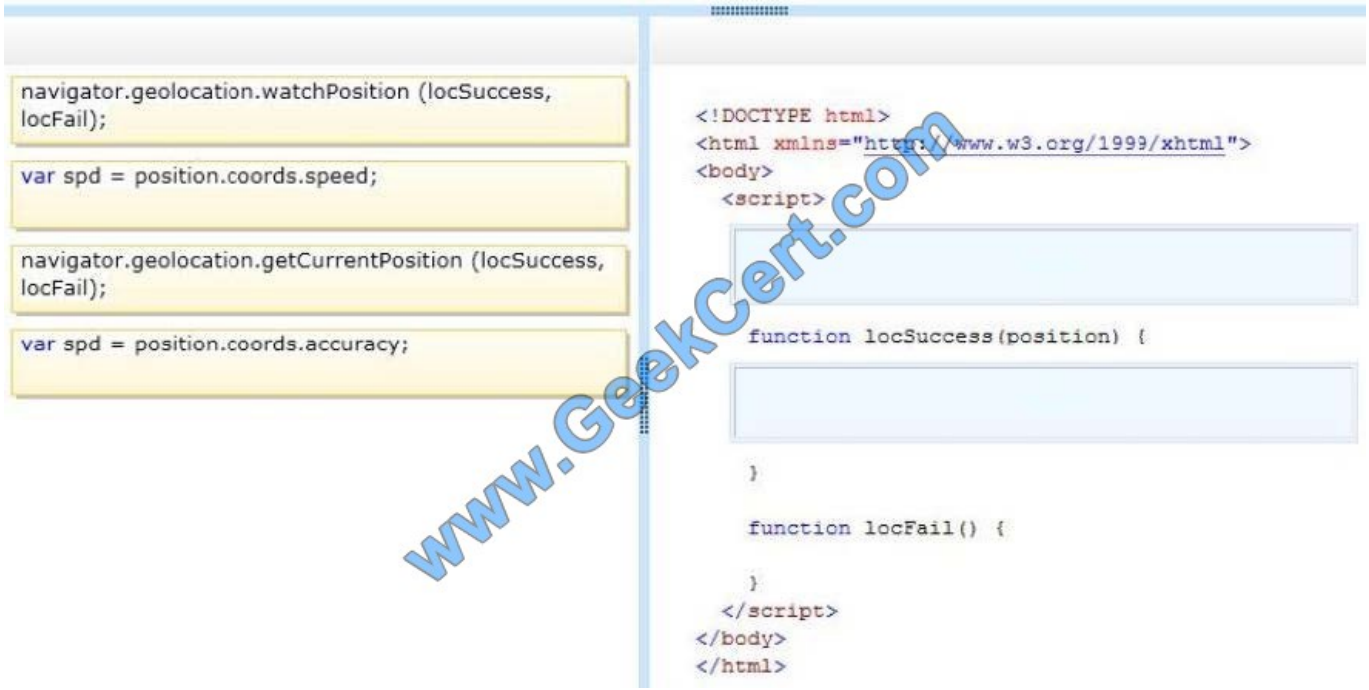
As the user moves, the application must update the screen with the new location.

As the user moves, the application must display the user\\'s speed.

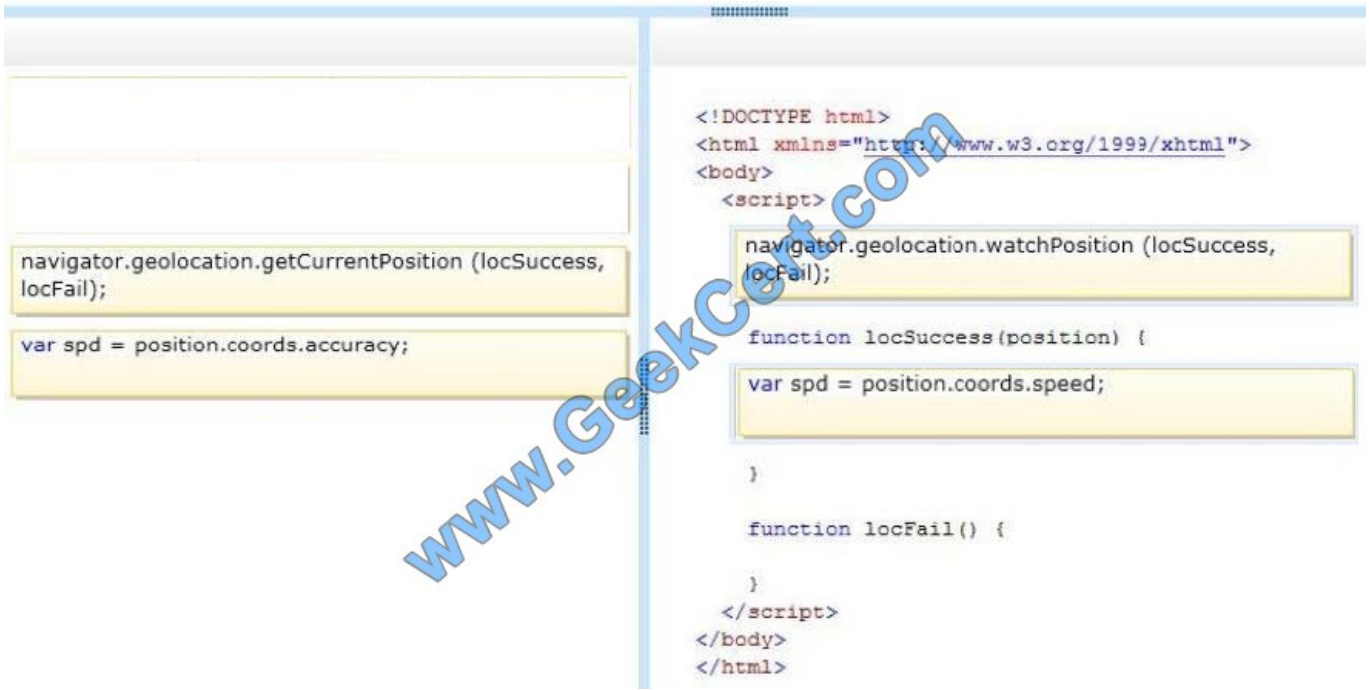
You need to develop the application to meet the requirements.

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

Select and Place:



Correct Answer:



* geolocation.watchPosition

watchPosition() - Returns the current position of the user and continues to return updated position as the user moves (like the GPS in a car).

* position data include:

/ coords.speed

The speed in meters per second

/ coords.accuracy (incorrect answer)

The accuracy of position

Etc.

* The getCurrentPosition() (incorrect)

The getCurrentPosition() method returns an object if it is successful. The latitude, longitude and accuracy properties are always returned. The other properties below are returned if available.

References:

https://www.w3schools.com/html/html5_geolocation.asp

QUESTION 7

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;}

Correct Answer: D

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

QUESTION 8

Which technology is HTML5 preceded by and derived from?

A. HTML 4.01

B. SGML

C. XHTML 1.0

D. XML

Correct Answer: A

References: http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf

QUESTION 9

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.

B.

C.

D.

Correct Answer: A

Definition and Usage

The onblur event occurs when an object loses focus.

Example

Execute a JavaScript when a user leaves an input field:

Reference: onblur Event

http://www.w3schools.com/jsref/event_onblur.asp

QUESTION 10

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

Information from the web form is submitted to a web service. The web service returns the following JSON object.

{

"Confirmation": "1234",

"FirstName": "John"

}

You need to display the Confirmation number from the JSON response in the txtValue label field. Which JavaScript code segment should you use?

A. $("#txtValue").val = (JSONObject.Confirmation);

B. $("#txtValue").val (JSONObject.Confirmation);

C. $("#txtValue").text = (JSONObject.Confirmation);

D. $("#txtValue").text (JSONObject.Confirmation);

Correct Answer: D

Incorrect Answers:

A, B: A label object has no value attribute.

Reference:

http://api.jquery.com/text/

QUESTION 11

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");
}
```

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A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

Object.prototype.constructor

Returns a reference to the Objectfunction 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.

References:

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object/constructor

QUESTION 12

You have the following markup.

```
<style>
        .flex1 {
           background-color: yellow;
           border:dotted;
        }

         flex2 {
           background-color: red;
           border:dotted;
        }
</style>
<div style="display:flex;background-color:grey;">
         <div class="flex1">
             Flex1
         </div>
         <div class="flex2">
             Flex2
         </div>
</div>
```

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You need to ensure that flex1 is displayed on the right of the page. flex2 must be displayed directly to the left of flex1. Which style should you add to the outer div?

A. flex-direction:column-reverse

B. flex-direction:row-reserve

C. flex-direction: row

D. flex-direction: column

Correct Answer: B

Reference: https://www.w3schools.com/cssref/css3_pr_flex-direction.asp

QUESTION 13

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

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

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

You need to update the webpage.

What should you do?

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

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

B. Add the following attribute to the first UL element:

```
border="1px solid black"
```

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

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

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

D. Add the following attribute to the first UL element:

```
id="border"
```

Correct Answer: B

QUESTION 14

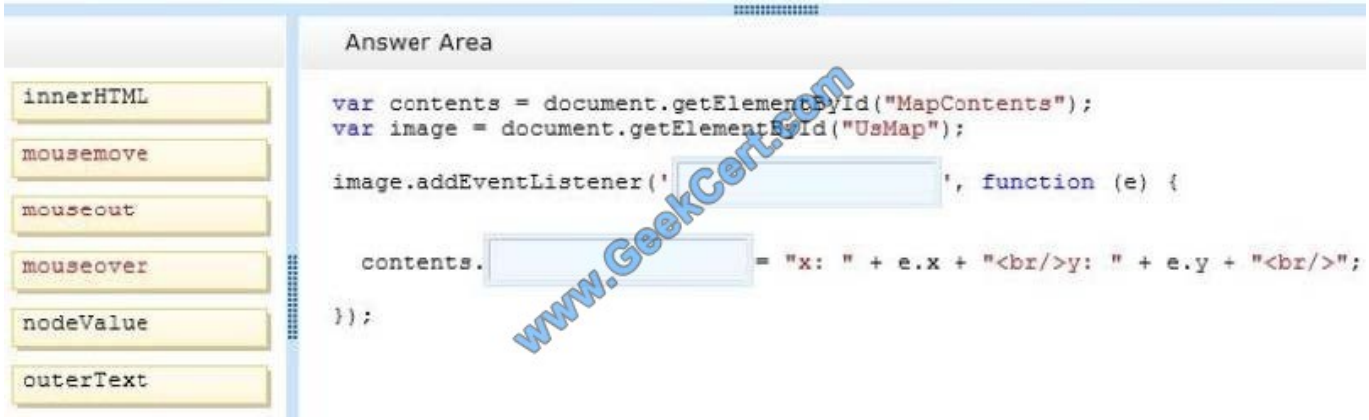
You develop an HTML5 webpage. You have the following HTML markup:

```
<div id="MapContents"></div>
<img src="map.gif" alt="US Map" id="UsMap" />
```

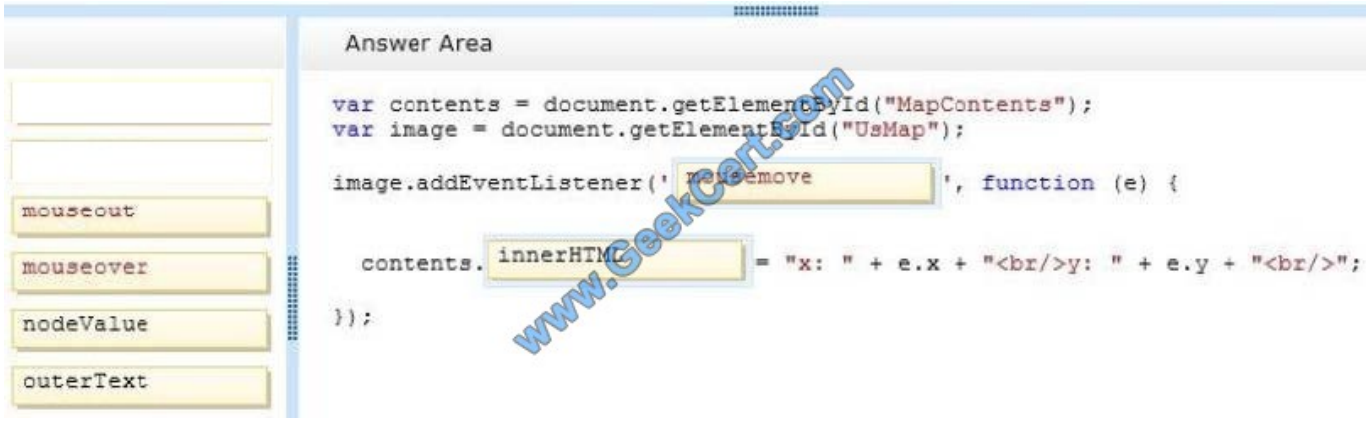
You need to update the content of the DIV element when the mouse hovers over an image and when the mouse coordinates change.

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

Select and Place:



Correct Answer:



* addEventLister 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

References:

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

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

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

QUESTION 15

DRAG DROP

You are developing a page by using HTML5 and CSS3.

You need to ensure that the page meets the following requirements:

The page must resize automatically for proper viewing on a variety of devices, such as desktop computers, mobile phones and tablets.

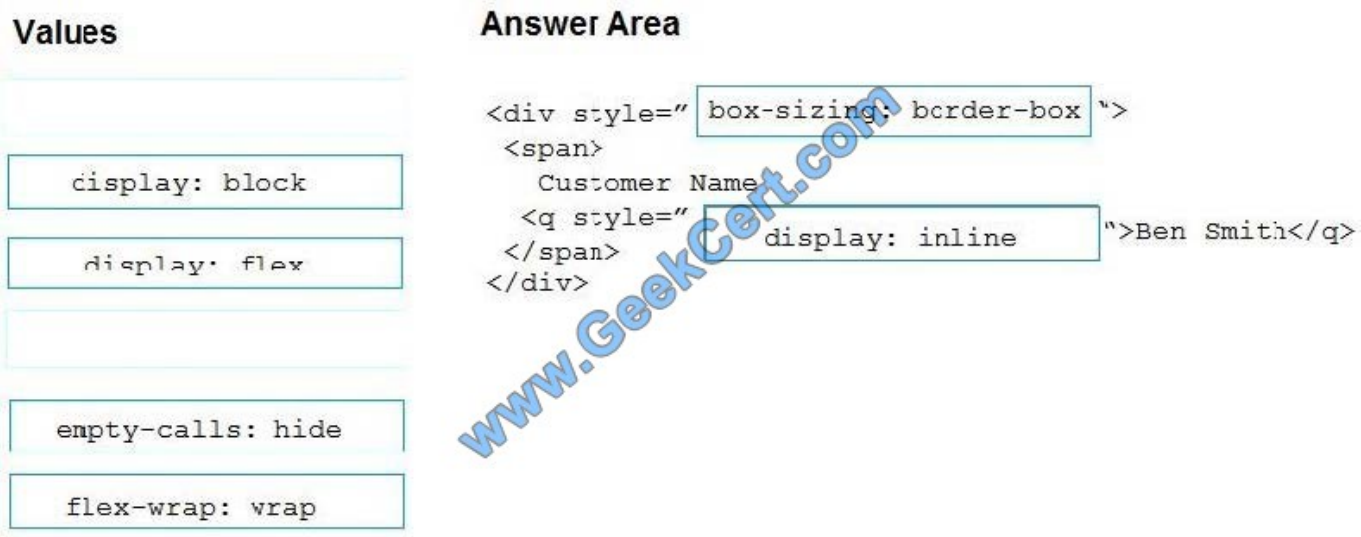
The text “Ben Smith” must appear on the same line without splitting around the other HTML elements.

How should you complete the markup? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Correct Answer:



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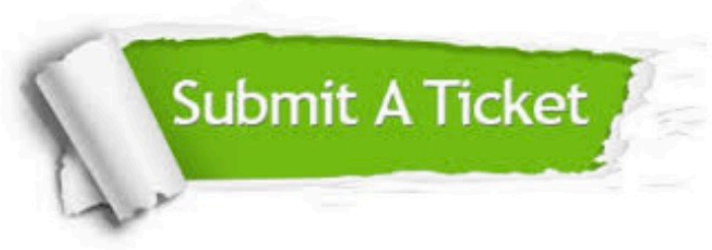

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