



# Reference Solution for 70-480.182q 70-480

70-480

Programming in HTML5 with JavaScript and CSS3

Score: 800/1000

Version:

Time Limit: 120 Minutes

## Exam A (5 questions)

### Question 1

You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability.

Which tag should you use?

- ☐ <tbody>
- ☒ <article>
- ☐ <div>
- ☐ <span>

Explanation:

Explanation:

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

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

Potential sources for the <article> element:

Forum post

Blog post

News story

Comment

## Question 2

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

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

You need to troubleshoot the code by clicking the Submit button.

Which value will be displayed?

- ☒ 10
- ☐ 20
- ☐ Undefined
- ☐ Runtime error

Explanation:

Explanation:

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

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

Example

```
// code here can not use carName

function myFunction() {
  var carName = "Volvo";
  // code here can use carName
}
```

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

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

Example

```
var carName = "Volvo";  
  
// code here can use carName  
  
function myFunction() {  
    // code here can use carName  
}
```

Reference: JavaScript Scope

### Question 3

You are developing an e-commerce website. Users place products into a shopping cart.

You need to ensure that the shopping cart data is available between browser sessions.

Which object should you use to store the shopping cart data?

- ☐ clientStorage
- ☒ localStorage
- ☐ applicationStorage
- ☐ sessionStorage

Explanation:

Explanation:

With local storage, web applications can store data locally within the user's browser.

HTML local storage, better than cookies.

Before HTML5, application data had to be stored in cookies, included in every server request. Local storage is more secure, and large amounts of data can be stored locally, without affecting website performance.

Reference: HTML5 Local Storage

### Question 4

You are creating a JavaScript function to display the current version of a web application  
You declare a button as follows.

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

You need to create an event handler for the button by using an anonymous function.

Which code segment should you use?

- ☐ A. `var button = document.getElementById("About");  
button.addEventListener('click', function { alert("Version 2.1.0") } );`
- ☐ B. `var button = document.getElementById("About");  
button.addEventListener('click', function (alert("Version 2.1.0") ) );`
- ☐ C. `var button = document.getElementById("About");  
button.addEventListener('click', function () { alert("Version 2.1.0") } );`
- ☐ D. `var button = document.getElementById("About");  
button.addEventListener('click', alert("Version 2.1.0") );`

- ☐ Option A
- ☐ Option B
- ☒ Option C
- ☐ Option D

Explanation:

Explanation:

Example

When passing parameter values, use an "anonymous function" that calls the specified function with the parameters:

```
document.addEventListener("click", function() {  
    myFunction(p1, p2);  
});
```

Reference: HTML DOM `addEventListener()` Method

**Question 5**

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

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

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

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

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

- ☒ Option A  
☐ Option B  
☐ Option C  
☒ Option D