

98-382^{Q&As}

Introduction to Programming Using JavaScript

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QUESTION 1

HOTSPOT

Variable x has a value of 5. Variable y has a value of 7.

For each of the following expressions, select True if the statement evaluates to true. Otherwise, select False.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

| | True | False |
|---|--------------------------|--------------------------|
| <code>x < 7 && y > 6</code> | <input type="checkbox"/> | <input type="checkbox"/> |
| <code>x == 6 y == 6</code> | <input type="checkbox"/> | <input type="checkbox"/> |
| <code>x != 7</code> | <input type="checkbox"/> | <input type="checkbox"/> |
| <code>!(x == y)</code> | <input type="checkbox"/> | <input type="checkbox"/> |

Correct Answer:

Answer Area

| | True | False |
|---|-------------------------------------|-------------------------------------|
| <code>x < 7 && y > 6</code> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <code>x == 6 y == 6</code> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <code>x !== 7</code> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <code>!(x == y)</code> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

References: https://www.w3schools.com/js/js_comparisons.asp

QUESTION 2

DRAG DROP

A JavaScript array is initialized as follows:

```
var array = [20, 40, 60, 80];
```

You write the following code to manipulate the array:

```
array.shift();  
array.pop();  
array.push(10);  
array.unshift(100);
```

You need to determine the contents of the array.

Which four elements does the array contain in sequence? To answer, move the appropriate elements from the list of elements to the answer area and arrange them in the correct order.

Select and Place:

| Elements | Answer area |
|----------|-------------|
| 10 | |
| 20 | |
| 40 | |
| 60 | |
| 80 | |
| 100 | |

Correct Answer:

| Elements | Answer area |
|----------|-------------|
| 20 | 100 |
| | 40 |
| | 60 |
| 80 | 10 |

References: <https://www.bennadel.com/blog/1796-javascript-array-methods-unshift-shift-push-and-pop.htm>

QUESTION 3

HOTSPOT

You evaluate the following code:

```
function change(student, course)
{
    student = "JavaScript Student";
    course.name = "JavaScript";
    course.grade = 100;
}

var sampleCourse = { "name": "HTML", "grade": 90 };
var sampleStudent = "HTML Student";

change(sampleStudent, sampleCourse);
console.log(sampleStudent, sampleCourse.name, sampleCourse.grade);
```

You need to determine the values of sampleStudent, sampleCourse.name, and sampleCourse.grade that are output by console.log(). What are the final values for the three variables? To answer, select the appropriate values in the answer area.

Hot Area:

Answer Area

sampleStudent =

| | |
|--------------------|---|
| | ▼ |
| HTML Student | |
| JavaScript Student | |

sampleCourse.name =

| | |
|------------|---|
| | ▼ |
| HTML | |
| JavaScript | |

sampleCourse.grade =

| | |
|-----|---|
| | ▼ |
| 90 | |
| 100 | |

Correct Answer:

Answer Area

sampleStudent =

| | |
|--------------------|---|
| | ▼ |
| HTML Student | |
| JavaScript Student | |

sampleCourse.name =

| | |
|------------|---|
| | ▼ |
| HTML | |
| JavaScript | |

sampleCourse.grade =

| | |
|-----|---|
| | ▼ |
| 90 | |
| 100 | |

References: https://www.w3schools.com/js/js_output.asp

QUESTION 4

HOTSPOT

You are planning to use the Math object in a JavaScript application. You write the following code to evaluate various Math functions:

```
var ceil = Math.ceil(100.5);  
var floor = Math.floor(100.5);  
var round = Math.round(100.5);
```

What are the final values for the three variables? To answer, select the appropriate values in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

ceil =

| | |
|-----|---|
| | ▼ |
| 100 | |
| 101 | |

floor =

| | |
|-----|---|
| | ▼ |
| 100 | |
| 101 | |

round =

| | |
|-----|---|
| | ▼ |
| 100 | |
| 101 | |

Correct Answer:

Answer Area

ceil =

| | |
|-----|---|
| | ▼ |
| 100 | |
| 101 | |

floor =

| | |
|-----|---|
| | ▼ |
| 100 | |
| 101 | |

round =

| | |
|-----|---|
| | ▼ |
| 100 | |
| 101 | |

References: https://www.w3schools.com/js/js_math.asp

QUESTION 5

DRAG DROP

Your instructor has asked you to implement code that would display a two-dimensional array of any size inside a tag.

You write the following code:

```
var div = document.getElementById('board');  
var board = [['-', 'X', '-', 'X'], ['-', '0', 'X', '0'], ['X', '0', '-', '0']];
```

You need to complete the code.

Which three segments should you use to develop the solution? To answer, move the appropriate code segments from

the list of code segments to the answer area and arrange them in the correct order.

Select and Place:

Code Segments

```
for(var k = 0; k < board[0].length; k++)
  div.innerHTML = div.innerHTML + board[i][j] + ' ';

for(i < board.length; i = i + 1){

  for (var j = 0; j < board[0].length; j = j + 1)
    div.innerHTML = div.innerHTML + board[i][j] + ' ';

  for (var i = 0; i < board.length; i++) {

    div.innerHTML = div.innerHTML + '<br>';

  }

  for(var j = i; j < board[0].length; j++)
    div.innerHTML = div.innerHTML + board[i][j] + ' ';
```

Answer Area



Correct Answer:

Code Segments

```
for(var k = 0; k < board[0].length; k++)
  div.innerHTML = div.innerHTML + board[i][j] + ' ';

for(i < board.length; i = i + 1){

  for (var j = 0; j < board[0].length; j = j + 1)
    div.innerHTML = div.innerHTML + board[i][j] + ' ';

  for (var i = 0; i < board.length; i++) {

    div.innerHTML = div.innerHTML + '<br>';

  }

  for(var j = i; j < board[0].length; j++)
    div.innerHTML = div.innerHTML + board[i][j] + ' ';
```

Answer Area

```
for (var i = 0; i < board.length; i++) {

  for(var j = i; j < board[0].length; j++)
    div.innerHTML = div.innerHTML + board[i][j] + ' ';

  div.innerHTML = div.innerHTML + '<br>';

}
```



References: http://www.plus2net.com/javascript_tutorial/array-two-dimension.php

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