98-382^{Q&As}

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Introduction to Programming Using JavaScript

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QUESTION 1

This question requires that you evaluate the underlined text to determine if it is correct. You review the following JavaScript code:

```
var x = 15;
x %= 5;
```

When this code executes, the value of x is 0.

Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

A. No change is needed

B. the value of x is 3

C. the value of x is 5

D. the value of x is undefined

Correct Answer: A

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

QUESTION 2

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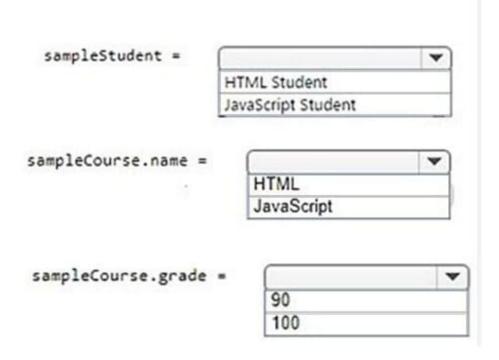
You need to determine the values of sampleStudent, sampleCourse.name, and sampleCourse.grade that are output by console.log(). What are the final values for the three variables? To answer, select the appropriate values in the answer area.

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 3

DRAG DROP

You need to write a loop that will traverse the length of an array to find the value orange. If an array element value is null, the code should immediately go to the next element. When the value is found, the loop should exit.
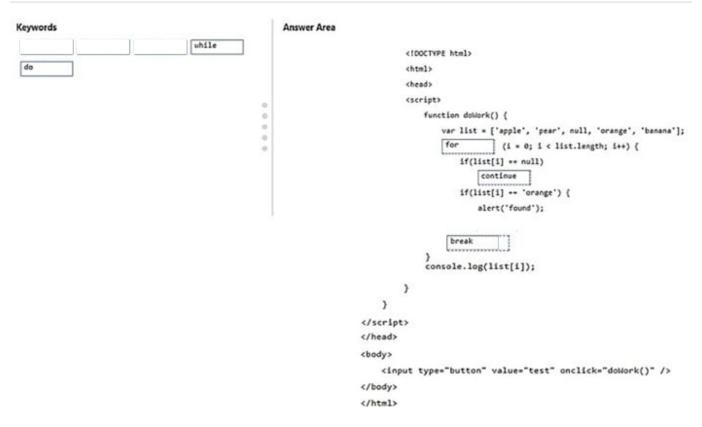
How should you complete the code? To answer, drag appropriate keywords to the correct locations. Each keyword may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Select and Place:

Keywords

| for | break | continue | while |
| do | | | |

Answer Area

```
<!DOCTYPE html>
<html>
<head>
<script>
    function doWork() {
        var list = ['apple', 'pear', null, 'orange', 'banana'];
        ................. (i = 0; i < list.length; i++) {
            if(list[i] == null)
                .................
            if(list[i] == 'orange') {
                alert('found');

                .................
            }
        console.log(list[i]);
        }
    }
</script>
</head>
<body>
    <input type="button" value="test" onclick="doWork()" />
</body>
</html>
```

Correct Answer:

Keywords

			while
do			

Answer Area

```html
<!DOCTYPE html>
<html>
<head>
    <script>
        function doWork() {
            var list = ['apple', 'pear', null, 'orange', 'banana'];
            for            (i = 0; i < list.length; i++) {
                if(list[i] == null)
                    continue
                if(list[i] == 'orange') {
                    alert('found');

                    break
                }
                console.log(list[i]);
            }
        }
    </script>
</head>
<body>
    <input type="button" value="test" onclick="doWork()" />
</body>
</html>
```

References: https://www.w3schools.com/js/js_arrays.asp https://www.w3schools.com/js/js_break.asp

QUESTION 4

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);
```
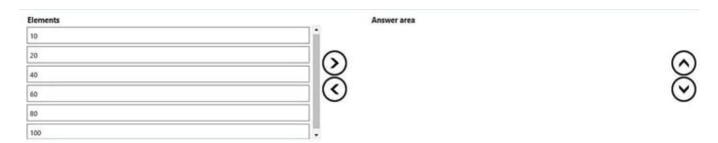
You need to determine the contents of the array.

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.
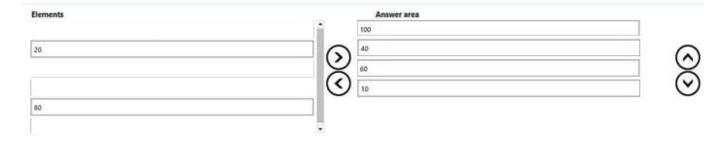
Select and Place:

Elements	Answer area
10	
20	
40	
60	
80	
100	

Correct Answer:

Elements	Answer area
	100
20	40
	60
	10
80	

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

QUESTION 5

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
x < 7 && y > 6	○	○
x == 6 || y == 6	○	○
x !== 7	○	○
!(x == y)	○	○

Correct Answer:

Answer Area

	True	False
x < 7 && y > 6	●	○
x == 6 || y == 6	○	●
x !== 7	●	○
!(x == y)	●	○

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