

# 98-382<sup>Q&As</sup>

Introduction to Programming Using JavaScript

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**QUESTION 1**

**HOTSPOT**

For each of the following segments, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

	Yes	No
When using a GET request with a form, the data length is restricted.	<input type="radio"/>	<input type="radio"/>
Only GET requests should be used when handling sensitive form data.	<input type="radio"/>	<input type="radio"/>
Form POST requests are cached.	<input type="radio"/>	<input type="radio"/>
Form POST requests will always remain in the browser history.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

**Answer Area**

	Yes	No
When using a GET request with a form, the data length is restricted.	<input checked="" type="radio"/>	<input type="radio"/>
Only GET requests should be used when handling sensitive form data.	<input type="radio"/>	<input checked="" type="radio"/>
Form POST requests are cached.	<input type="radio"/>	<input checked="" type="radio"/>
Form POST requests will always remain in the browser history.	<input type="radio"/>	<input checked="" type="radio"/>

References: [https://www.w3schools.com/tags/ref\\_httpmethods.asp](https://www.w3schools.com/tags/ref_httpmethods.asp)

**QUESTION 2**

**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](https://www.w3schools.com/js/js_math.asp)

### QUESTION 3

#### HOTSPOT

You are using JavaScript to write a safe root math utility that has the following requirements:

Given the function `safeRoot(a, b)`:

If the radicand (a) is non-negative, return `Math.pow(a, 1/b)`;

Otherwise,

If the index (b) is divisible by 2, then return text indicating the result is imaginary.

Otherwise return `-Math.pow(-a, 1/b)`

How should you complete the code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

```
function safeRoot(a, b) {
```

	▼
if (a >= 0) {	
if (b % 2 == 0) {	

```
return Math.pow(a, 1 / b);
```

	▼
} else if (b % 2 == 0) {	
} else if (a >= 0) {	
} else {	
if (b % 2 == 0) {	

	▼
} else if (b % 2 == 0) {	
} else if (a >= 0) {	
if (a >= 0) {	
if (b % 2 == 0) {	

```
return "Result is an imaginary number";
```

	▼
} else if (b % 2 == 0) {	
} else if (a >= 0) {	
} else {	
} if (a >= 0) {	
} if (b % 2 == 0) {	

```
}  
}
```

Correct Answer:

## Answer Area

```
function safeRoot(a, b) {
```

```
    if (a >= 0) {  
        if (b % 2 == 0) {
```

```
            return Math.pow(a, 1 / b);
```

```
        } else if (b % 2 == 0) {  
        } else if (a >= 0) {  
        } else {  
            if (b % 2 == 0) {
```

```
                } else if (b % 2 == 0) {  
                } else if (a >= 0) {  
                if (a >= 0) {  
                if (b % 2 == 0) {
```

```
                    return "Result is an imaginary number";
```

```
                } else if (b % 2 == 0) {  
                } else if (a >= 0) {  
                } else {  
                    if (a >= 0) {  
                    if (b % 2 == 0) {
```

```
            }  
        }  
    }
```

References: [https://www.w3schools.com/js/js\\_if\\_else.asp](https://www.w3schools.com/js/js_if_else.asp)

### QUESTION 4

#### HOTSPOT

You are creating a function that does safe division.

The function has the following requirements:

The function receives two parameters for the numerator and denominator.

If the denominator is zero, the function must return false.

If the denominator is not zero, the function must return true.

You write the following code. Line numbers are included for reference only.

```
01 function isSafeDivide( numerator, denominator ) {  
02     if ( denominator = 0 ) {  
03         return false;  
04     } else {  
05         return true;  
06     }  
07 }
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

	Yes	No
The function will always return false.	<input type="radio"/>	<input type="radio"/>
The operator at line 02 should be !=	<input type="radio"/>	<input type="radio"/>

Correct Answer:

**Answer Area**

	Yes	No
The function will always return false.	<input type="radio"/>	<input checked="" type="radio"/>
The operator at line 02 should be !=	<input type="radio"/>	<input checked="" type="radio"/>

References: [https://www.w3schools.com/js/js\\_comparisons.asp](https://www.w3schools.com/js/js_comparisons.asp) [https://www.w3schools.com/jsref/jsref\\_if.asp](https://www.w3schools.com/jsref/jsref_if.asp)

**QUESTION 5**

**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 =

sampleCourse.name =

sampleCourse.grade =

Correct Answer:



## Answer Area

`sampleStudent =`

`sampleCourse.name =`

`sampleCourse.grade =`

References: [https://www.w3schools.com/js/js\\_output.asp](https://www.w3schools.com/js/js_output.asp)

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