



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

Introduction to Programming Using JavaScript

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**QUESTION 1****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)

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### QUESTION 2

#### 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 3

### HOTSPOT

You are creating a JavaScript function that returns a date the specified number of months in the future of the current date.

The function must meet the following requirements:

Accept a number that represents the number of months to add or subtract from the current date.



Return the current data adjusted by the number of months passed into the function.

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 adjustMonth(value) {
```

☐ var date = new Date();

☐ var date = Date();

☐ var date = new Date;

☐ var date = Date;

☐ var month = date.getMonth;

☐ var month = getMonth();

☐ var month = date.getMonth();

☐ var month = getMonth;

☐ date.setMonth(month + value);

☐ setMonth(month + value);

```
    return date ;
```

```
}
```

Correct Answer:



## Answer Area

```
function adjustMonth(value) {
```

```
var date = new Date();
```

```
var date = Date();
```

```
var date = new Date;
```

```
var date = Date;
```

```
var month = date.getMonth;
```

```
var month = getMonth();
```

```
var month = date.getMonth();
```

```
var month = getMonth;
```

```
date.setMonth(month + value);
```

```
setMonth(month + value);
```

```
return date ;
```

```
}
```

References: [https://www.w3schools.com/js/js\\_dates.asp](https://www.w3schools.com/js/js_dates.asp) [https://www.w3schools.com/js/js\\_date\\_methods.asp](https://www.w3schools.com/js/js_date_methods.asp)  
[https://www.w3schools.com/jsref/jsref\\_setmonth.asp](https://www.w3schools.com/jsref/jsref_setmonth.asp)

### QUESTION 4

#### HOTSPOT

You are writing a JavaScript program for Blue Yonder Airlines. The program stores various information about the airline's flights.

The program has initialized the following variables:

```
01 var flightDestination = "Denver";  
02 var flight = 5;  
03 var roundTrip = 2489.58;  
04 var onTime = true;  
05 var id = flight + flightDestination;
```

You need to determine the data type of the code segment based on initialization and the assignment of the variables. Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.



NOTE: Each correct selection is worth one point.

Hot Area:

### Answer Area

What is the data type for line 01?

	▼
Number	
String	
Boolean	
Null	
Undefined	

What is the data type for line 03?

	▼
Number	
String	
Boolean	
Null	
Undefined	

What is the data type for line 04?

	▼
Number	
String	
Boolean	
Null	
Undefined	

What is the data type for line 05?

	▼
Number	
String	
Boolean	
Null	
Undefined	

Correct Answer:



**Answer Area**

What is the data type for line 01?

	▼
Number	
String	
Boolean	
Null	
Undefined	

What is the data type for line 03?

	▼
Number	
String	
Boolean	
Null	
Undefined	

What is the data type for line 04?

	▼
Number	
String	
Boolean	
Null	
Undefined	

What is the data type for line 05?

	▼
Number	
String	
Boolean	
Null	
Undefined	

References: [https://www.w3schools.com/js/js\\_datatypes.asp](https://www.w3schools.com/js/js_datatypes.asp)

**QUESTION 5****HOTSPOT**

You are creating a function named `countdown`. The function accepts a single parameter, `start`, and displays a countdown from that number down to zero in increments of one.

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





Hot Area:

## Answer Area

```
function countdown(start) {  
  for ( 

|                 |
|-----------------|
|                 |
| var i = start;  |
| var i == start; |
| var i <= start; |
| var i < start;  |



|       |
|-------|
|       |
| i<=0; |
| i<0;  |
| i>0;  |
| i>=0; |



|     |
|-----|
|     |
| ++i |
| +i  |
| --i |
| -i  |

 ) {  
    console.log(i);  
  }  
}
```

Correct Answer:

## Answer Area

```
function countdown(start) {  
  for ( 

|                 |
|-----------------|
|                 |
| var i = start;  |
| var i == start; |
| var i <= start; |
| var i < start;  |



|       |
|-------|
|       |
| i<=0; |
| i<0;  |
| i>0;  |
| i>=0; |



|     |
|-----|
|     |
| ++i |
| +i  |
| --i |
| -i  |

 ) {  
    console.log(i);  
  }  
}
```

References: [https://www.w3schools.com/js/js\\_operators.asp](https://www.w3schools.com/js/js_operators.asp)

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