

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

Introduction to Programming Using JavaScript

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**QUESTION 1**

**HOTSPOT**

You are using JavaScript to create a function that calculates admission price.

The function must meet the following requirements: The function accepts the age of the customer as a parameter A customer who is less than 5 years old gets in free A customer who is 65 years old or older gets in free A customer who is 5 years old to 17 years old, pays \$10 USD All other customers pay \$20 USD

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 ticketPrice(age) {  
    var price = 20;
```

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

```
    if (age <= 5 && age > 65) {  
    if (age < 5 && age >= 65) {  
    if (age <= 5 || age > 65) {  
    if (age < 5 || age >= 65) {  
        price = 0;
```

```
    }  
    if (age >= 5 && age < 18) {  
    if (age > 5 && age <= 18) {  
    if (age >= 5 || age < 18) {  
    if (age > 5 || age <= 18) {  
        price = 10;  
    }  
    return price;
```

Correct Answer:

## Answer Area

```
function ticketPrice(age) {  
    var price = 20;
```

<input type="checkbox"/>	if (age <= 5 && age > 65) {
<input type="checkbox"/>	if (age < 5 && age >= 65) {
<input type="checkbox"/>	if (age <= 5    age > 65) {
<input checked="" type="checkbox"/>	if (age < 5    age >= 65) {
	price = 0;

<input type="checkbox"/>	if (age >= 5 && age < 18) {
<input type="checkbox"/>	if (age > 5 && age <= 18) {
<input type="checkbox"/>	if (age >= 5    age < 18) {
<input checked="" type="checkbox"/>	if (age > 5    age <= 18) {

```
    price = 10;  
}  
return price;
```

References: [https://www.w3schools.com/jsref/jsref\\_operators.asp](https://www.w3schools.com/jsref/jsref_operators.asp)

### QUESTION 2

#### 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) {
```

<input type="text"/>	▼
var date = new Date();	
var date = Date();	
var date = new Date;	
var date = Date;	

<input type="text"/>	▼
var month = date.getMonth;	
var month = getMonth();	
var month = date.getMonth();	
var month = getMonth;	

<input type="text"/>	▼
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 3

#### HOTSPOT

The ABC company offers a mid-week discount of 10% on Wednesdays.

You need to write a JavaScript function that meets the following requirements:

Accepts the day of the week as a string

Returns the appropriate discount

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

```
01 function getDiscount(day) {  
02     var discount = 0;  
03  
04  
05     discount = .1;  
06     break;  
07  
08     discount = 0;  
09     break;  
10 }  
11 return discount;  
12 }
```

You must complete the code at lines 03, 04, and 07.

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

```
01 function getDiscount(day) {  
02     var discount = 0;
```

03

	▼
case (day) {	
default (day) {	
case (default) {	
switch (day) {	

04

	▼
case "Wednesday":	
default:	
case default:	
switch "Wednesday"	

05

```
    discount = .1;
```

06

```
    break;
```

07

	▼
case "Wednesday":	
default:	
case default:	
switch "Wednesday":	

08

```
        discount = 0;
```

09

```
        break;
```

10

```
    }
```

11

```
    return discount;
```

12 }

Correct Answer:

## Answer Area

```
01 function getDiscount(day) {  
02     var discount = 0;
```

03

	▼
case (day) {	
default (day) {	
case (default) {	
switch (day) {	

04

	▼
case "Wednesday":	
default:	
case default:	
switch "Wednesday"	

05

```
    discount = .1;
```

06

```
    break;
```

07

	▼
case "Wednesday":	
default:	
case default:	
switch "Wednesday":	

08

```
    discount = 0;
```

09

```
    break;
```

10

```
    }
```

11

```
    return discount;
```

12 }

References: [https://www.w3schools.com/jsref/jsref\\_switch.asp](https://www.w3schools.com/jsref/jsref_switch.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 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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