

## Question 13

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);
```

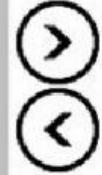
You need to determine the contents of the array.

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

10
20
40
60
80
100



Answer Area.


## Question 14

### HOTSPOT -

You need to evaluate the following code segment. Line numbers are included for reference only.

```
01 var n;  
02 console.log(typeof n);  
03 var a = "3.4";  
04 console.log(typeof a);  
05 var textArray = ["Welcome Back", "Enter a Name", "Incorrect Answer"];  
06 console.log(typeof textArray);  
07 var c = 2.4;  
08 console.log(typeof c);  
09 var tag = null;  
10 console.log(typeof tag);
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

Hot Area:

### Answer Area

What does the `console.log` function on line 02 write to the console?

string
array
object
number
undefined

What does the `console.log` function on line 04 write to the console?

string
array
object
number
undefined

What does the `console.log` function on line 06 write to the console?

string
array
object
number
undefined

What does the `console.log` function on line 08 write to the console?

string
array
object
number
undefined

What does the `console.log` function on line 10 write to the console?

string
array
object
number
undefined

## Question 15

You are writing an engineering application. You need to create a function that will round numbers to 3 or more decimal places.

You need to create a function that receives the following two parameters:

- Ⓐ The value parameter is the number to be formatted
- Ⓑ The digits parameter is the number of digits to display

The function must return the value with the number of digits specified.

Which function should you use?

A.

```
function significance(value, digits) {  
    return value.toPrecision(digits);  
}
```

B.

```
function significance(value, digits) {  
    return value.toString(digits);  
}
```

C.

```
function significance(value, digits) {  
    return value.toFixed(digits);  
}
```

D.

```
function significance(value, digits) {  
    return value.valueOf(digits);  
}
```

## Question 16

HOTSPOT -

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

```
01 "use strict";  
02 var val1 = 25;  
03 var val2 = 4;  
04 function multiply() {  
05     return val1 * val2;  
06 }  
07  
08 console.log("Global multiply returns() : " + multiply());  
09 multiply();  
10  
11 function getProduct() {  
12     var val1 = 2;  
13     var val2 = 3;  
14  
15     function multiply() {  
16         return val1 * val2;  
17     }  
18     return multiply();  
19 }  
20 }
```

Hot Area:

### Answer Area

Yes

No

The call to the `multiply` function on line 09 returns 100.



The call to the `multiply` function on line 19 returns 100.



## Question 17

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 date 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 ;
```

```
}
```

## Question 18

HOTSPOT -

You work as a JavaScript developer for Adventure Works. You are writing a simple script that performs the following actions:

- Declares and initializes an array
- Fills the array with 10 random integers
- Adds every other number starting with the first element

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

```
var numbers = 

|   |
|---|
| 0 |
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |

  
for (var i = 0; i < 10; i++) {  
    numbers. 

|                                             |
|---------------------------------------------|
| (Math.round(Math.abs(Math.random() * 10))); |
| pop                                         |
| push                                        |
| sort                                        |
| splice                                      |

  
}  
var sum = 0; sort 

|     |
|-----|
| j++ |
| j+1 |
| j+2 |
| j-  |

  
for (var j = 0; j < 10; j = 

|     |
|-----|
| j++ |
| j+1 |
| j+2 |
| j-  |

 ) {  
    sum += 

|            |
|------------|
| sum[j]     |
| numbers[j] |
| numbers(j) |
| array[j]   |

;  
}  
console.log(sum);
```

## Question 19

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

## Question 20

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

## Question 21

HOTSPOT -

You are creating JavaScript code that manipulates dates. You want to initialize a Date object with the date January 1, 2017 by using the year, month, and date parameters.

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

Hot Area:

### Answer Area

```
var date = new Date(
```

17	▼
2017	

0	▼
1	
Jan	
January	

## Question 22

HOTSPOT -

Your instructor has asked you to write a program that uses simple rules to help determine if a person should take the train, drive their car, or ride a bike, depending on the conditions of the weather and the amount of gas in the car's tank.

The program has the following requirements:

- ☞ When the temperature is above 65 degrees and it is not raining, the person should be told to ride their bike.
  - ☞ When it is raining, the person should be told to drive their car.
- If their car has half a tank of gas or less, they should be told to take the train.

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

Hot Area:

### Answer Area

```
if(temperature > 65 && !rainning)  
    advice = "Ride Bike";  
else if(fuelTank == .5)  
    advice = "Take Train";  
else  
    advice = "Drive your car";
```

## Question 23

### 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;  
  
    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;  
}
```

## Question 24

### 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;  
break;
```

06

```
case "Wednesday":  
default:  
case default:  
switch "Wednesday":
```

07

```
discount = 0;  
break;  
}  
11     return discount;  
12 }
```