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Introduction to Programming Using JavaScript



Exam A

QUESTION 1

DRAG DROP

You are creating a web page that tests a user's ability to accurately type text. The validation should be case-insensitive.

How should you complete the code? To answer, drag appropriate functions to the correct locations. Each function 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.



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Select and Place:





Code Segments Answer Area <!DOCTYPE html> value <html> innerHTML <head> (script> toLowerCase() function validate() { var input = document.getElementById("tester"). var text = document.getElementById("userText"). if(input. </script> </head> <body>

When in the course of human events...

<input type="input" id="tester"; />

<button onclick="validate()">Validate</button>







value

innerHTML

Code Segments Answer Area <!DOCTYPE html> value <html> innerHTML <head> (script> toLowerCase() function validate() { var input = document.getElementById("tester"). var text = document.getElementById("userText"). if(input. value innerHTML CEpi bleet("Success"); == text. </script> </head> <body> When in the course of human events...

<input type="input" id="tester"; />

<button onclick="validate()">Validate</button>



Section: (none) Explanation

Explanation/Reference:

Explanation:

References: https://www.w3schools.com/jsref/prop_text_value.asp

QUESTION 2 HOTSPOT

You evaluate the following code:

```
function change(student, course)
{
    student = "JavaScript Student";
    course.name = "JavaScript";
    course.grade = 100;
}

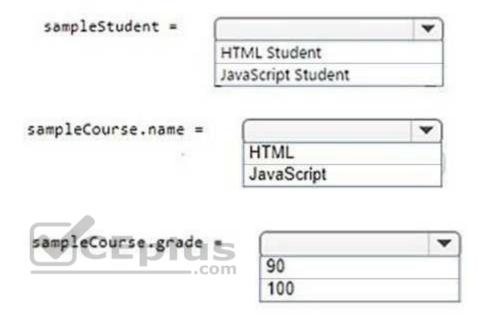
var sampleCourse = { "name": "HTML", "grade": 90 };
var sampleStudent = "HTML Student";

change(sampleStudent, sampleCourse);
console.log(sampleStudent, sampleCourse.name, sampleCourse.grade);
```

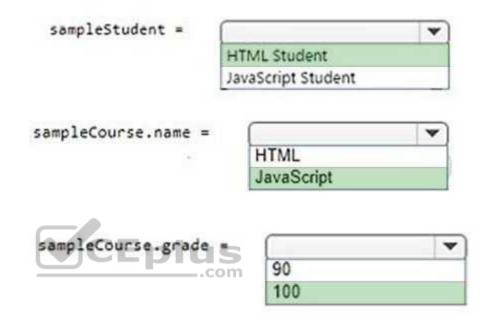
You need to determine the values of sampleStudent, sampleCourse.name, and sampleCourse.grade that are output by console.log().

What are the final values for the three variables? To answer, select the appropriate values in the answer area.









Section: (none) Explanation

Explanation/Reference:

Explanation:

 $References: https://www.w3schools.com/js/js_output.asp$

QUESTION 3DRAG DROP

A JavaScript array is initialized as follows:

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:

Correct Answer:



Section: (none) Explanation



Elements	Answer area
	100
20	40
	60
80	10

_.com

Explanation/Reference:

Explanation:

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

QUESTION 4

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);
```

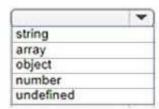
Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.



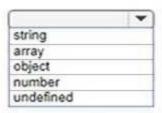
What does the console.log function on line 02 write to the console?

string array object number undefined

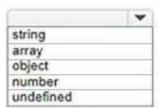
What does the console. log function on line 04 write to the console?



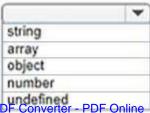
What does the console.log function on line 06 write to the console?



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



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









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

> string array object number undefined

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



Section: (none) Explanation

Explanation/Reference:

QUESTION 5

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?



https://vceplus.com/_A.

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

В.



D.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

References: https://www.w3schools.com/jsref/jsref_tofixed.asp

QUESTION 6 HOTSPOT

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

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



Yes

No

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

0



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

0



Correct Answer:

Answer Area

Yes

No

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

0



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





Section: (none) Explanation

Explanation/Reference:

QUESTION 7 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.







```
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 ;
```



```
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 ;
```

Section: (none) Explanation



Explanation/Reference:

Explanation:

References:

https://www.w3schools.com/js/js_dates.asp

https://www.w3schools.com/js/js_date_methods.asp

https://www.w3schools.com/jsref/jsref_setmonth.asp

QUESTION 8

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

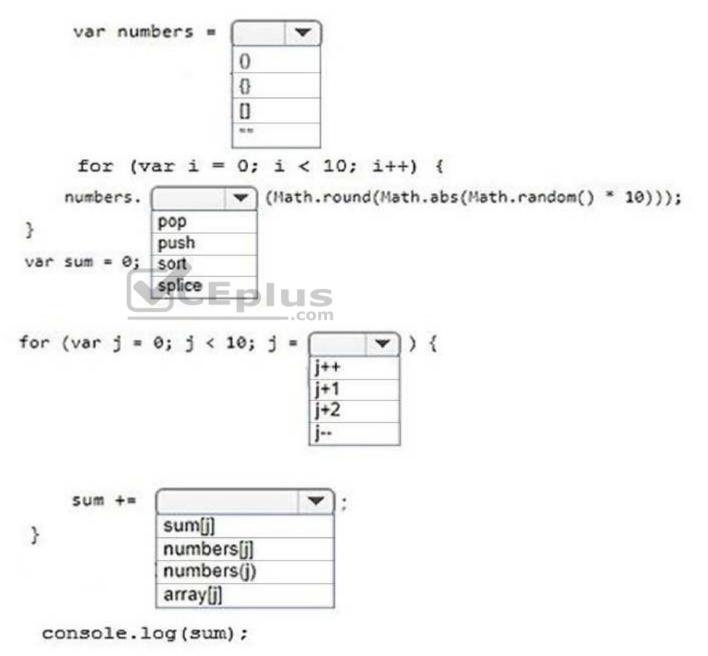
- Fills the array with 10 random integers
- Adds every other number starting with the first element

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.



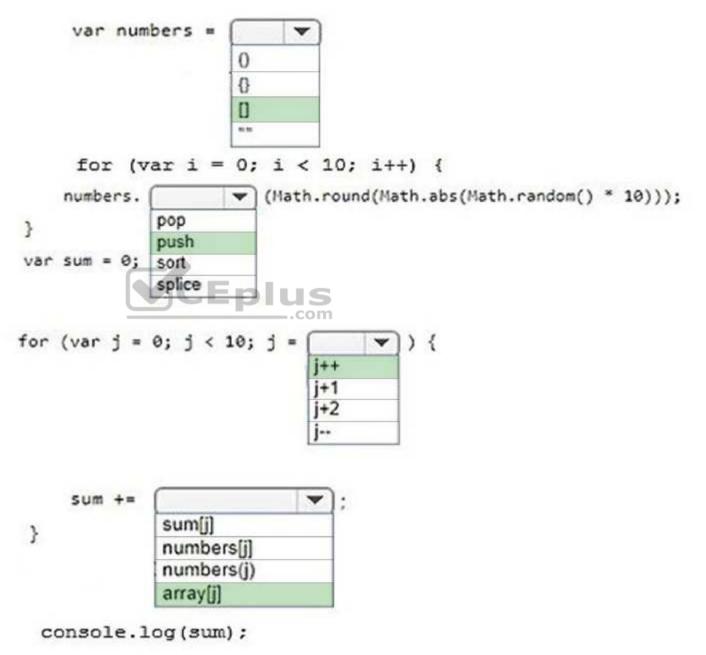














Section: (none) **Explanation**

Explanation/Reference:

Explanation:

References:

https://www.w3schools.com/jsref/jsref push.asp https://www.w3schools.com/js/js_arrays.asp

https://stackoverflow.com/questions/9813573/how-to-perform-a-sum-of-an-int-array

QUESTION 9 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;
```

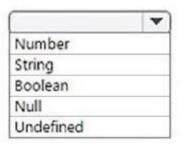


You need to determine the data type of the code segment based on initialization and the assignment of the variables. Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

NOTE: Each correct selection is worth one point.

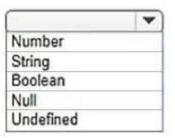


What is the data type for line 01?

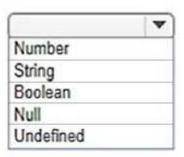


What is the data type for line 03?





What is the data type for line 04?



~







What is the data type for line 01?

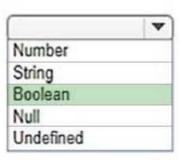


What is the data type for line 03?





What is the data type for line 04?



~



Section: (none) Explanation

Explanation/Reference:

Explanation:

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

QUESTION 10

HOTSPOT

You are planning to use the Math object in a JavaScript application. You write the following code to evaluate various Math functions:

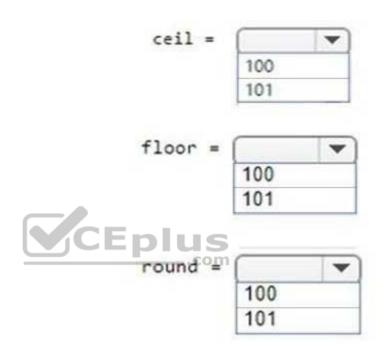
```
var ceil = Math.ceil(100.5);
var floor = Math.floor(100.5);
var round = Math.round(100.5);
```

What are the final values for the three variables? To answer, select the appropriate values in the answer area.

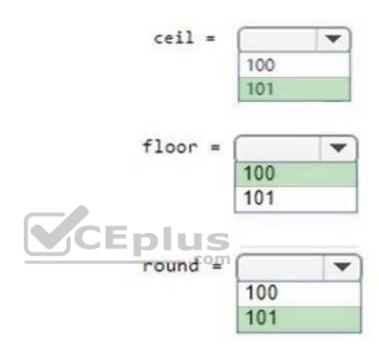
NOTE: Each correct selection is worth one point.











Section: (none) Explanation

Explanation/Reference:

Explanation:

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

QUESTION 11

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.





https://vceplus.com/ Hot Area:

Answer Area



	-
0	
1	
Jan	
January	

Correct Answer: Section: (none) Explanation

Explanation/Reference:

Explanation:

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







QUESTION 12

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.

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The program has the following requirements:

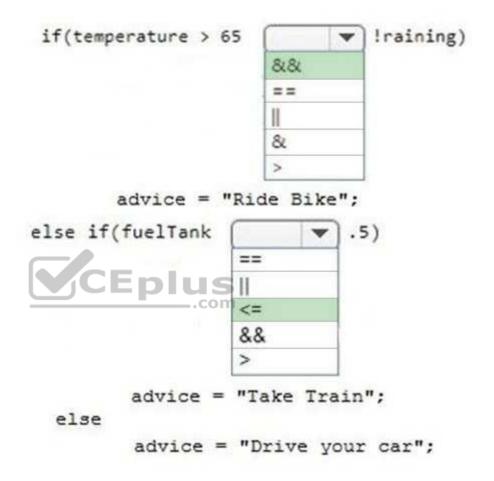
- When the temperature is above 65 degrees and it is not raining, the person should be told to ride their bike.
- When it is raining, the person should be told to drive their car.
- If their car has half a tank of gas or less, they should be told to take the train.

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









Section: (none) Explanation

Explanation/Reference:

Explanation:

References: https://www.w3schools.com/jsref/jsref_operators.asp

QUESTION 13 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.





```
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) {
                price = 10;
        }
            price = 10;
        }
        return price;
}</pre>
```



```
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;
```

Section: (none) Explanation

Explanation/Reference:

Explanation:

References: https://www.w3schools.com/jsref/jsref_operators.asp

QUESTION 14

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 volls coeffus.com - VCE Exam Simulator - Download A+ VCE (latest) free Open VCE Exams - VCE to PDF Converter - PDF Online



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

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





```
01 function getDiscount(day) {
02
       var discount = 0;
03
       case (day) {
       default (day) {
       case (default) {
       switch (day) {
                                      V
             case "Wednesday":
             default:
             case default.
             switch "Wednesday"
05
                discount = .1;
06
                break;
97
            case "Wednesday":
            default
            case default:
            switch "Wednesday":
                 discount = 0;
  08
  09
                 break;
  10
  11
         return discount;
  12 }
```







```
01 function getDiscount(day) {
02
       var discount = 0;
03
       case (day) {
       default (day) {
       case (default) {
       switch (day) {
                                      V
             case "Wednesday":
             default:
             case default.
             switch "Wednesday"
05
                discount = .1;
06
                break;
97
            case "Wednesday":
            default
            case default:
            switch "Wednesday":
                 discount = 0;
  08
  09
                 break;
  10
  11
         return discount;
  12 }
```



Section: (none) Explanation

Explanation/Reference:

Explanation:

References: https://www.w3schools.com/jsref/jsref_switch.asp

QUESTION 15

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:





oncli

Keywords				Answer Are	ea	
for	break	continue	while]	D0CT</td <td>TYPE html></td>	TYPE html>
do					<html></html>	
					<head></head>	>
					<scrip< td=""><td>pt></td></scrip<>	pt>
				0	fu	unction doWork() {
				CEplus	S _m	<pre>var list = ['apple', 'pear', nul</pre>
					}	onsole.log(list[i]);
					}	
					,	
					<body></body>	
					<input td="" typ<=""/> <td>pe="button" value="test" oncl:</td>	pe="button" value="test" oncl:







Keywords		Answer Area
	while	
do		
		0
		0
		0
		CEplus

```
<!DOCTYPE html>
          <html>
         <head>
         <script>
             function doWork() {
                  var list = ['apple', 'pear', null
                  for
                               (i = 0; i < list.le
                     if(list[i] == null)
                          continue
                      if(list[i] -- 'orange') {
                         alert('found');
                    break
              console.log(list[i]);
</script>
    <input type="button" value="test" oncli</pre>
```

}

</head>

<body>



Section: (none) Explanation

Explanation/Reference:

Explanation:

References:

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

QUESTION 16

HOTSPOT

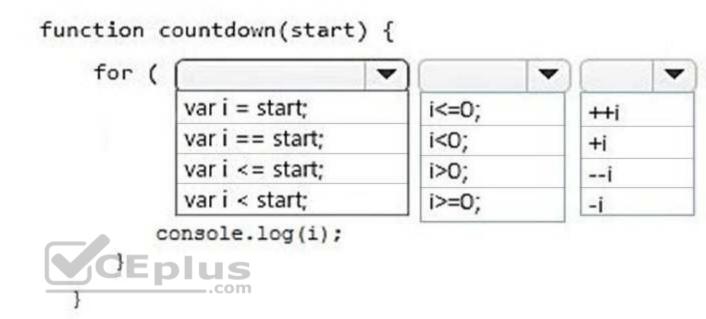
You are creating a function named countdown. The function accepts a single parameter, start, and displays a countdown from that number down to zero in increments of one.

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

Hot Area:





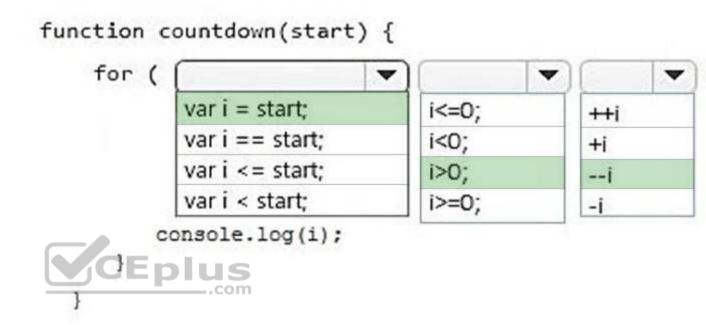


Correct Answer: Section: (none) Explanation

Explanation/Reference:

Explanation:





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

QUESTION 17

HOTSPOT

You are creating a calendar application. You need to ensure that the code works correctly for all months of the year.

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

NOTE: Each correct selection is worth one point.





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Hot Area:





```
var daysInMonth;
var month;
month = new Date().getMonth();
 switch (month) {
 case (month) {
 break {
    case 1:
            daysInMonth = 28; // for February, ignore leap years
         case 3: break;
                  continue;
         case 5: while (month);
         case 8:
         case 10:
                daysInMonth = 30;
                 break;
                 continue;
                 while (month);
```







```
var daysInMonth;
var month;
month = new Date().getMonth();
 switch (month) {
 case (month) {
 break {
    case 1:
            daysInMonth = 28; // for February, ignore leap years
         case 3: break;
                  continue;
         case 5:
                 while (month);
         case 8:
         case 10:
                 daysInMonth = 30;
                  break;
                 continue;
                 while (month);
```



Section: (none) Explanation

Explanation/Reference:

Explanation:

References:

https://www.w3schools.com/js/js_break.asp https://www.w3schools.com/jsref/jsref_switch.asp

QUESTION 18

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.



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Yes

No

The function will always return false.





The operator at line 02 should be !=





Correct Answer:

Answer Area



Yes

No

The function will always return false.





The operator at line 02 should be !=





Section: (none) Explanation

Explanation/Reference:

Explanation:

References:

https://www.w3schools.com/js/js_comparisons.asp https://www.w3schools.com/jsref/jsref_if.asp



QUESTION 19

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	0	0
x 6 y 6 CEplus	0	0
x !== 7	\odot	0
!(x == y)	0	0





Section: (none) Explanation

Explanation/Reference:

Explanation:

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

QUESTION 20

DRAG DROP

You are developing a web page that uses JavaScript. The script needs to display information to the user using a popup box.

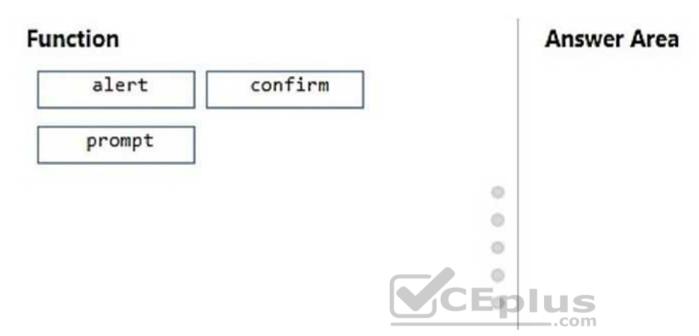
Match each function that displays a popup box with its appropriate scenario.

To answer, drag the appropriate function from the column on the left to its appropriate scenario on the right. Each function may be used once, more than once, or not at all.

NOTE: Each correct selection is worth one point.



Select and Place:



Displ Displ Displ

Correct Answer: Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 21



Function	Answer Area		
		prompt	Disp
	•	alert	Disp
		confirm	Disp
		a 	_
IOTSPOT	CEplus		

HOTSPOT

You are designing a function that allows you to perform unit tests on other functions in a library. You will invoke each library function by using the eval JavaScript function. If an exception occurs when invoking a function, you want to display a message box with the following message:

The function does not exist.

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

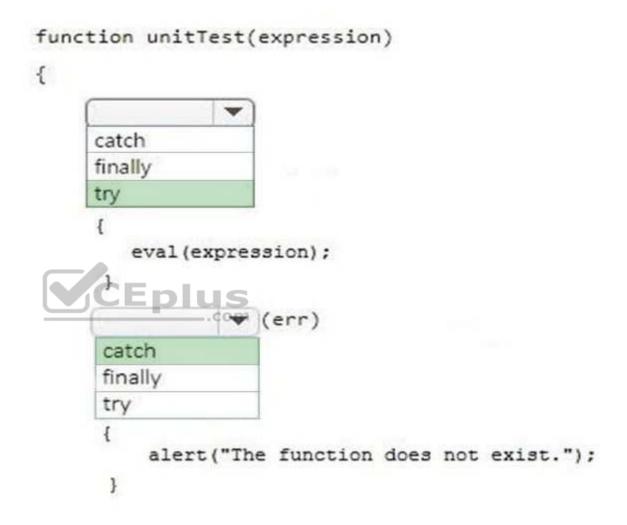
NOTE: Each correct selection is worth one point.

Hot Area:



```
function unitTest(expression)
{
     catch
     finally
     try
        eval (expression);
      catch
      finally
      try
          alert ("The function does not exist.");
```





Section: (none) Explanation

Explanation/Reference:

Explanation:

References: https://www.w3schools.com/jsref/jsref_try_catch.asp



This question requires that you evaluate the underlined text to determine if it is correct.

You review the following JavaScript code:

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 Section: (none) Explanation



Explanation/Reference:

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



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