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	rking with Functions, Data		
Γrue / False	-		
1. In JavaScript	code, you use the words ye	es and no to indicate Boolean values.	
a. True			
b. False			
ANSWER:	False		
POINTS:	1		
REFERENCES:	97		
a. True	n operator is used to compar	re two operands and determine if one num	neric value is greater than another.
b. False			
ANSWER:	True		
POINTS:	1		
REFERENCES:	118		
a. True	rator is used to compare two	o string operands for equality.	
b. False			
ANSWER:	False		
POINTS:	1		
REFERENCES:	123		
4. Parentheses a evaluated. a. True	re used with expressions to	change the associativity with which indiv	vidual operations in an expression are
b. False			
ANSWER:	True		
POINTS:	1		
REFERENCES:			
	130		
5. An anonymou a. True	as function is a set of related	d statements that is assigned a name.	
b. False			
ANSWER:	False		
POINTS:	1		
REFERENCES:	74		
Multiple Choice			
	programming, you can writ ments that are executed as a	e your own procedures, called, which is single unit.	ch refer to a related group of
a. programs	b. functions		
c. modules	d. objects		

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ANSWER:	b		
POINTS:	1		
REFERENCES:			
	74		
	a variable that is used within a function.		
a. method	b. property		
c. parameter	er d. operator		
ANSWER:	c		
POINTS:	1		
REFERENCES:	75		
8. A(n) star a. return	atement is a statement that returns a value to the sta b. replace	tement that called the function.	
c. value	d. exit		
ANSWER:	a		
POINTS:	1		
REFERENCES:	86		
9. A variab a. local c. scoped ANSWER: POINTS:	ble is one that is declared outside a function and is b. limited d. global d	available to all parts of your prog	gram.
REFERENCES:	87		
10. Data types the a. primitive c. numeric ANSWER: POINTS:	hat can be assigned only a single value are called _ b. null d. Boolean a 1	types.	
REFERENCES:	91		
languages.	ng languages that require you to declare the data typ	pes of variables are calledt	yped programming
a. dynamic			
c. static	d. loosely		
ANSWER:	b		
POINTS:	1		
REFERENCES:	· 92 93		
12. JavaScript is a. static type	s a programming language. bed b. loosely typed		

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c. strongly	typed d. n	umeric typed	
ANSWER:	b		
POINTS:	1		
REFERENCES:	93		
	•	negative number with no decimal places. b. scientific number	
c. exponent	ial number	d. integer	
ANSWER:	d		
POINTS:	1		
REFERENCES:	93		
a. empty	b. undefined	gned a zero-length string value called a(n) string.	
c. short	d. byte		
ANSWER:	a		
POINTS:	1		
REFERENCES:	98		
a. value sep	arator	d to combine two strings. b. equals comparison d. declaration operator	
ANSWER:	c c	d. declaration operator	
POINTS:	1		
REFERENCES:	_		
a. exclamat	ion point	ler or interpreter that the character that follows it has a sp b. escape character	pecial purpose.
		d. upper case character	
ANSWER:	b		
POINTS: REFERENCES:	1 101		
17 The strict on	uvol omonoton i		
17. The strict eq	_	s	
a. – c. ===			
ANSWER:	u. :- c		
POINTS:	1		
REFERENCES:	104 118		
	119		
18. You can use	an arithmetic	e operator to return the modulus of a calculation, which is	s the when you divide one

number by another number.

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- a. remainder left
- b. quotient
- c. product
- d. difference

ANSWER:

- **POINTS:** 1
- REFERENCES: 105
- 19. The And operator is _____.
 - a. !=
- b. | |

С

- c. && d. ===
- ANSWER:
- **POINTS:**
- REFERENCES: 104
 - 123
 - 124
- 20. The _____ operator executes one of two expressions based on the results of a conditional expression.
 - b. () a. .
 - d. ?: c.,
- ANSWER:
- **POINTS:** 1
- REFERENCES: 125
- 21. Which arithmetic operators have the highest precedence?
 - a. * / %
- b. < <=
- c. &&
- d. + -
- ANSWER:
- *POINTS:* 1
- REFERENCES: 127
 - 128
- 22. Which of the following is a logical operator?
 - a. ++
 - b. () d. || c. ==
- ANSWER:
- **POINTS:** 1
- REFERENCES: 123
- - 124
- 23. Which of the following is a falsy value?
 - a. true
- b. -1
- c. 0
- d. 1
- ANSWER: **POINTS:**
 - c
- 1
- REFERENCES: 122

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	123		
24. Function sta	tements are	e contained within the function	
a. paramete	rs b. bı	races	
c. argument	ts d. pa	arentheses	
ANSWER:	b		
POINTS:	1		
REFERENCES:	75		
25. The variable	s or values	s that you place in the parentheses of a function call sta	atement are called
a. string ope	erators	b. primitive types	
c. argument	ts	d. event listeners	
ANSWER:	a		
POINTS:	1		
REFERENCES:	79		
Completion			
26. Placing a pa	rameter na	me within the parentheses of a function definition is the	ne equivalent of declaring a new
ANSWER:	variable		
POINTS:	1		
REFERENCES:	75		
27. A(n)		type is the specific category of information that	at a variable contains.
ANSWER:	data		
POINTS:	1		
REFERENCES:	91		
	uments to t	the parameters of a called function is called	arguments.
ANSWER:	passing		
POINTS:	1		
REFERENCES:	79		
		variable is declared inside a function and is av	vailable only within the function in which
it is declared.			
ANSWER:	local		
POINTS:	1		
REFERENCES:	87		
		operator requires an operand before and after	the operator.
ANSWER:	binary		
POINTS:	1		

REFERENCES: 105

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Matching
Identify the letter of the choice that best matches the phrase or definition. a. addEventListener()
b. function call
c. postfix operator
d. scope
e. Boolean
f. function definition
g. operator precedence
h. floating-point
i. falsy
j. innerHTML
REFERENCES: 81
79
109
87 97
74
127
93
122
116
31. Method that lets you specify an event handler for an event
ANSWER: a
POINTS: 1
32. The lines that make up a function
ANSWER: f
POINTS: 1
22 41 1 1 5. 61
33. A logical value of true or false <i>ANSWER</i> : e
POINTS: 1
34. The code that invokes a named function
ANSWER: b
POINTS: 1
35. Can be either global or local
ANSWER: d
POINTS: 1
36. A number that contains decimal places or that is written in exponential notation
36. A number that contains decimal places or that is written in exponential notation <i>ANSWER</i> : h
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Date:____

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POINTS: 1			
37. A value treated in comparison operatio <i>ANSWER:</i> i <i>POINTS:</i> 1	ns as the Boolean value false		
38. Placed after a variable <i>ANSWER:</i> c <i>POINTS:</i> 1			
39. The order in which operations in an expansion and expa	pression are evaluated		
40. A property whose value is the content language.	between an element's opening and closin	ng tags	

Subjective Short Answer

41. Describe the two types of functions and explain when you'd use each type.

ANSWER:

POINTS: 1

JavaScript supports two different kinds of functions: named functions and anonymous functions. A named function is a set of related statements that is assigned a name. You can use this name to reference, or call, this set of statements in other parts of your code. An anonymous function, on the other hand, is a set of related statements with no name assigned to it. The statements in an anonymous function work only in a single context—the place in the code where they are located. You cannot reference an anonymous function anywhere else in your code.

Generally, you use a named function when you want to be able to reuse the function statements within your code, and you use an anonymous function for statements that you need to run only once.

POINTS: 1
REFERENCES: 74

42. Define variable scope, and describe the two types of variable scope and how you create each.

ANSWER:

When you use a variable in a JavaScript program, particularly a complex JavaScript program, you need to be aware of the variable scope—that is, you need to think about where in your code a declared variable can be used. A variable's scope can be either global or local. A global variable is one that is declared outside a function and is available to all parts of your code. A local variable is declared inside a function and is available only within the function in which it is declared. Local variables cease to exist when a function ends. If you attempt to use a local variable outside the function in which it is declared, browsers log an error message to the console.

POINTS: 1
REFERENCES: 87

43. JavaScript supports five primitive data types. Name and describe these types.

ANSWER: Number: Positive or negative numbers with or without decimal places, or numbers written using exponential notation.

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Boolean: A logical value of String: Text such as "Hello		
Undefined: A variable tha	at has never had a value assigned to it, h	has not been declared, or does not exist.

POINTS: 1
REFERENCES: 91

44. Operator precedence is the system that determines the order in which operations in an expression are evaluated.

ANSWER: The term operator precedence refers to the order in which operations in an expression are evaluated.

POINTS: 1
REFERENCES: 127

45. What is a browser console and how is it useful for a web developer?

Null: An empty value.

ANSWER:

When a browser encounters an error that keeps it from understanding code, it generates an error message. However, this message is displayed in a pane known as a browser console, or simply console, which is hidden by default to avoid alarming users. As a developer, however, it can be useful to display the browser console pane to see any errors that your code may generate.

POINTS: 1
REFERENCES: 83

46. What is the relationship between Boolean values, truthy values, and falsy values?

ANSWER:

A Boolean value is a logical value of true or false. You can also think of a Boolean value as being yes or no, or on or off. Boolean values are most often used for deciding which code should execute and for comparing data. In JavaScript programming, you can only use the words true and false to indicate Boolean values.

JavaScript includes six values that are treated in comparison operations as the Boolean value false. These six values, known as falsy values, are "", -0, 0, NaN, null, and undefined. All values other than these six falsy values are the equivalent of Boolean true, and are known as truthy values.

POINTS: 1 *REFERENCES:* 97

122

123

47. What is the difference between the operation of the + operator with numbers and with strings? Provide an example of each, including the results.

ANSWER:

When used with numbers, the + operator adds the operands. For instance, the statement 5 + 3 would produce the result 8.

When used with strings, the + operator concatenates the operands. For instance, the statement "side" + "walk" would produce the result "sidewalk".

POINTS: 1
REFERENCES: 100

106

48. What are the differences between using a the increment and decrement unary operators as prefix operators versus using them as postfix operators?

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ANSWER:

The increment (++) and decrement (--) unary operators can be used as prefix or postfix operators. A prefix operator is placed before a variable name. A postfix operator is placed after a variable name. The operands ++count and count++ both increase the count variable by one. However, the two statements return different values. When you use the increment operator as a prefix operator, the value of the operand is returned *after* it is increased by a value of one. When you use the increment operator as a postfix operator, the value of the operand is returned *before* it is increased by a value of one. Similarly, when you use the decrement operator as a prefix operator, the value of the operand is returned *after* it is decreased by a value of one, and when you use the decrement operator as a postfix operator, the value of the operand is returned *before* it is decreased by a value of one. If you intend to assign the incremented or decremented value to another variable, then whether you use the prefix or postfix operator makes a difference.

POINTS: 1
REFERENCES: 109

49. Explain what logical operators are, and then list the 3 JavaScript logical operators and explain what each does.

ANSWER:

Logical operators are used to modify Boolean values or specify the relationship between operands in an expression that results in a Boolean value.

&& (And) returns true if both the left operand and right operand return a value of true; otherwise, it returns a value of false

| | (Or) returns true if either the left operand or right operand returns a value of true; if neither operand returns a value of true, then the expression containing the | | operator returns a value of false

! (Not) returns true if an expression is false, and returns false if an expression is true

POINTS: 1
REFERENCES: 123

124

50. What are the advantages of using the addEventListener() method instead of the other two methods to specify an event handler?

ANSWER:

One drawback of specifying event handlers with HTML attributes is they require developers to place JavaScript code within HTML code. Just as developers generally avoid using inline CSS styles to keep HTML and CSS code separate, most developers prefer not to mix HTML and JavaScript code in the same file. Instead, they maintain separate HTML and JavaScript files.

When you specify an event handler as a property value for the object representing an HTML element, you can assign only one event handler per event. In more complex code, you might want to specify several event handlers to fire in response to a given event.

Using addEventListener() lets you keep your JavaScript code separate from your HTML, and allows you to specify more than one event handler for a given event on a single element.

POINTS: 1

REFERENCES: 80

81