

Variables

1. What keyword is used to declare a variable that can be reassigned in JavaScript?
2. Which of the following is the correct way to declare a constant in JavaScript?
3. Which of these is NOT a valid variable name in JavaScript?
4. What is the result of the following code? `var x; console.log(x);`
5. Which of the following can be used to store multiple values in a single variable?

Functions

6. What is the correct syntax to define a function in JavaScript?
7. What is the return type of `typeof` operator when used on a function?
8. Which keyword is used to exit a function and return a value?
9. What will be the output of `console.log(typeof function({}));`?
10. How can we assign a function to a variable in JavaScript?

Conditional Statements

11. What will `if (false) { console.log('Hello'); }` output?
12. Which of the following is used for a conditional expression?
13. What is the output of `if ("") { console.log("Hello"); } else { console.log("Goodbye"); }`?
14. What is the correct syntax for an `if...else` statement in JavaScript?
15. What will `console.log(1 == '1');` output?

Iterative Structures

16. Which loop will execute at least once, even if the condition is false?
17. What is the correct syntax for a `for` loop in JavaScript?
18. Which keyword is used to stop a loop in JavaScript?
19. What will the following code output? `for (let i = 0; i < 3; i++) { console.log(i); }`
20. Which loop can be used to iterate over each property of an object?

Mixed Concepts

- 21. What does `let x = 2 + "2";` result in?
- 22. What is `typeof null` in JavaScript?
- 23. Which of the following is NOT a primitive data type in JavaScript?
- 24. What is the result of `console.log(1 === "1");`?
- 25. How many values can a Boolean data type hold?

Basic Functions

- 26. Which of the following is the correct syntax to define a function in JavaScript?
- 27. What keyword is used to exit a function and return a value?
- 28. Which of the following statements correctly invokes a function named `sum`?
- 29. What is the default return value of a function that doesn't return anything explicitly?
- 30. What will the following code output? `function greet() { console.log("Hello"); } greet();`

Function Expressions

- 31. What is a function expression in JavaScript?
- 32. Which of the following is a valid function expression?
- 33. What will `typeof myFunc` return if `myFunc` is a function expression?
- 34. What will the following code output? `let add = function(x, y) { return x + y; }; console.log(add(3, 4));`
- 35. Which keyword can be used to define an anonymous function in JavaScript?

Arrow Functions

- 36. Which of the following is the correct syntax for an arrow function?
- 37. What is the output of `let sum = (a, b) => a + b; console.log(sum(5, 7));`?

38. Arrow functions do not have their own **this** context. What context do they use instead?
39. Which of the following is a valid single-line arrow function that returns the sum of **x** and **y**?
40. What will the following code output? **let double = n => n * 2; console.log(double(4));**

Parameters and Arguments

41. Which of the following is a default parameter syntax?
42. What will the following code output? **function multiply(x, y = 2) { return x * y; } console.log(multiply(3));**
43. What will the following code output? **function greet(name = "Guest") { return "Hello, " + name; } console.log(greet());**
44. Which method allows a function to be called with a specific **this** context?
45. What will **sum.apply(null, [3, 4]);** do if **sum** is defined as **function sum(a, b) { return a + b; }**?

Higher-Order Functions

46. What is a higher-order function?
47. Which of the following is NOT a higher-order function?
48. What will **const addOne = n => n + 1; console.log([1, 2, 3].map(addOne));** output?
49. What will **let nums = [1, 2, 3]; console.log(nums.filter(n => n > 1));** output?
50. What is the purpose of the **reduce** function in JavaScript?

Advanced Concepts

51. What will the following code output? **function outer() { let x = 5; function inner() { return x; } return inner; } console.log(outer());**
52. What does **bind** do when used with functions?
53. In JavaScript, what is an Immediately Invoked Function Expression (IIFE)?
54. What will **((a, b) => a + b)(3, 4);** output?

55. What is the purpose of closures in JavaScript?