## JavaScript Operators

|  |  |  |
| --- | --- | --- |
| **Operator** | **Example** | **Same As** |
| = | x = y | x = y |
| += | x += y | x = x + y |
| -= | x -= y | x = x - y |
| \*= | x \*= y | x = x \* y |
| /= | x /= y | x = x / y |
| %= | x %= y | x = x % y |
| \*\*= | x \*\*= y | x = x \*\* y |

## JavaScript Comparison Operators

|  |  |
| --- | --- |
| **Operator** | **Description** |
| == | equal to |
| === | equal value and equal type |
| != | not equal |
| !== | not equal value or not equal type |
| > | greater than |
| < | less than |
| >= | greater than or equal to |
| <= | less than or equal to |
| ? | ternary operator |

## JavaScript Logical Operators

|  |  |
| --- | --- |
| **Operator** | **Description** |
| && | logical and |
| || | logical or |
| ! | logical not |

## JavaScript Type Operators

|  |  |
| --- | --- |
| **Operator** | **Description** |
| typeof | Returns the type of a variable |
| instanceof | Returns true if an object is an instance of an object type |

## JavaScript Arithmetic Operators

Arithmetic operators perform arithmetic on numbers (literals or variables).

|  |  |
| --- | --- |
| **Operator** | **Description** |
| + | Addition |
| - | Subtraction |
| \* | Multiplication |
| \*\* | Exponentiation ([ES2016](https://www.w3schools.com/js/js_2016.asp)) |
| / | Division |
| % | Modulus (Remainder) |
| ++ | Increment |
| -- | Decrement |

## Operators and Operands

The numbers (in an arithmetic operation) are called **operands**.

The operation (to be performed between the two operands) is defined by an **operator**.

|  |  |  |
| --- | --- | --- |
| **Operand** | **Operator** | **Operand** |
| 100 | + | 50 |