Operators

An [operator](https://developer.mozilla.org/en-US/docs/Glossary/operator) is a mathematical symbol that produces a result based on two values (or variables). In the following table you can see some of the simplest operators, along with some examples to try out in the JavaScript console.

| **Operator** | **Explanation** | **Symbol(s)** | **Example** |
| --- | --- | --- | --- |
| **add/concatenation** | Used to add two numbers together, or glue two strings together. | + | 6 + 9; "Hello " + "world!"; |
| **subtract, multiply, divide** | These do what you'd expect them to do in basic math. | -, \*, / | 9 - 3; 8 \* 2; // multiply in JS is an asterisk 9 / 3; |
| **assignment operator** | You've seen this already: it assigns a value to a variable. | = | var myVariable = 'Bob'; |
| **Identity operator** | Does a test to see if two values are equal to one another, and returns atrue/false (Boolean) result. | === | var myVariable = 3; myVariable === 4; |
| **Negation, not equal** | Returns the logically opposite value of what it preceeds; it turns  a trueinto a false, etc. When it is used alongside the Equality operator, the negation operator tests whether two values are *not* equal. | !, !== | The basic expression istrue, but the comparison returnsfalsebecause we've negated it:  var myVariable = 3; !(myVariable === 3);  Here we are testing "ismyVariableNOT equal to 3". This returnsfalsebecausemyVariableIS equal to 3.  var myVariable = 3; myVariable !== 3; |