

Arithmetic Operators

- As the name suggests, the arithmetic operators are used to perform arithmetic operations.
- The arithmetic operators are:
 - Addition (+)
 - Subtraction (-)
 - Multiplication (*)
 - Division (/)
 - Modulus (%)
 - Exponentiation (**)
 - Increment (++)
 - Decrement (--)
- The addition operator is used to add two numbers, just like

```
var a = 10;  
var b = 20;  
var sum = a + b;  
document.write(sum);
```

document.write() is a function that is used to write text to the browser, in this case, it will write the sum of a and b to the browser.

- The subtraction operator is used to subtract two numbers, just like

```
var a = 10;  
var b = 20;  
var difference = a - b;  
document.write(difference);
```

- The multiplication operator is used to multiply two numbers, just like

```
var a = 3;  
var b = 5;  
var multiply = a * b;  
document.write(multiply);
```

- The division operator is used to divide two numbers, just like

```
var a = 10;  
var b = 20;
```

```
var divide = a / b;  
document.write(divide);
```

- The modulus operator is used to find the remainder of two numbers, just like

```
var a = 3;  
var b = 5;  
var modulus = a % b; // 3  
document.write(modulus);
```

The remainder of two numbers ($a \% b$) is the number that remains after the division of a by b .

- The exponentiation operator is used to raise a number to a power, just like

```
var a = 3;  
var b = 5;  
var exponent = a ** b; // 243  
document.write(exponent);
```

- The increment operator is used to increment a number by 1, just like

```
var a = 10;  
a++;  
document.write(a); // 11
```

- The decrement operator is used to decrement a number by 1, just like

```
var a = 10;  
a--;  
document.write(a); // 9
```

Quiz Time!

- What is the value of answer after executing the following code?

```
var a = 10;  
var b = 20;  
var answer = a + (10 * b) / 2;
```

- Answer : $\text{answer} = a + (10 * b) / 2 = 10 + 200 / 2 = 10 + 100 = 110$