

Arithmetic Operators

A byte size lesson in Java programming.

What is an operator?

- An operator is a symbol that performs operations on variables and values.
- There are many types of operators, including Arithmetic, Assignment, Logical etc.

Arithmetic Operators

- Used for basic mathematical operations

+ Addition

- Subtraction

* Multiplication

/ Division

% Modulo (remainder after division)

Let's test your understanding!

- Which is the right operator to use to get the below answers

```
int a = 12, b = 5;
```

```
a  b = 60
```

Division

- If we use the division operator (/) with two integers, then the result will also be an integer.
- If one of the operands is a floating-point number, the result will be a floating point number.

$(9 / 2)$ is 4

$(9.0 / 2)$ is 4.5

Modulo

- The Modulo operator (%) computes the remainder, and is mainly used with integers.

$7 \% 4$ is 3

Let's test your understanding!

```
int a = 10, b = 6;  
float c = 4.0f;
```

a + b =

a - b =

a % b =

a / c =