



Java Arithmetic Operators

Addition (+)

- Adds two numbers together.
- Example: $5 + 6 = 11$.
- Can also be used for string concatenation.

Example Code:

```
int sum = 5 + 6; // sum is 11
```

Subtraction (-)

- Subtracts the second number from the first.
- Example: $10 - 6 = 4$.

Example Code:

```
int difference = 10 - 6; // difference is 4
```

Multiplication (*)

- Multiplies two numbers.
- Example: $6 * 5 = 30$.

Example Code:

```
int product = 6 * 5; // product is 30
```

Division (/)

- Divides the first number by the second.
- Integer division if both operands are integers.
- Example: $10 / 2 = 5$.

Example Code:

```
int quotient = 10 / 2; // quotient is 5
```

Modulus (%)

- Gives the remainder of division.
- Example: $6 \% 4 = 2$.
- Useful for determining even/odd numbers.

Example Code:

```
int remainder = 6 % 4; // remainder is 2
```

Java Code Example

```
public class Main {  
  
    public static void main(String[] args) {  
        int x = 5 + 6;  
        int y = 10 - 6;  
        int z = 6 * 5;  
        int a = 10 / 2;  
        int b = 6 % 4;  
  
        System.out.println("Addition is " + x);  
        System.out.println("Difference is " + y);  
        System.out.println("Product is " + z);  
        System.out.println("Quotient is " + a);  
        System.out.println("Remainder is " + b);  
    }  
}
```

OUTPUT:

Addition is 11

Difference is 4

Product is 30

Quotient is 5

Remainder is 2