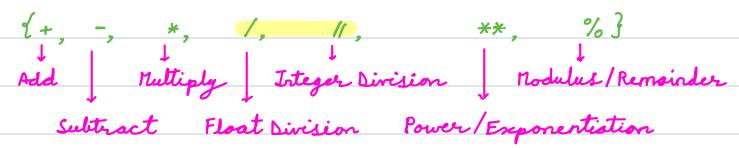
Agenda

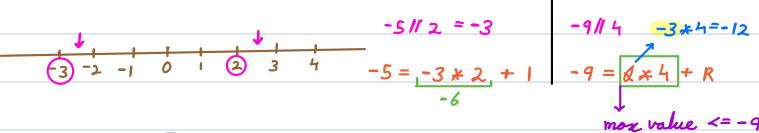
- 1. Operators
- 2. Arithmetic operators
- 3. Precedence of operators
- 4. Boolean operators
- 5. Comparison operators
- 6. Assignment operators
- 7. Logical Operators

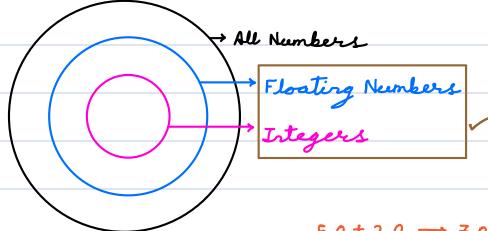


5 + 4 operation / expression operator

Arithmetic Operators







10.0//3 → 3.0 (resultant int converted to float)

Modulus

$$x^{\prime}/y = x \Rightarrow x = q \times q + x \rightarrow [0 \ (y-1)]$$

max value $\leq x$

$$20^{\circ}/.3 \rightarrow 20 = 6*3 + 2$$

$$-10\%3 \rightarrow -10 = -4*3 + 2$$
= 2
(-1 in Jara/C++/C# etc.)

Precedence of Operators

High bour B O D M A S

() x^y x/y x+y x-y

For some precedence - go from left to Right.

$$= 10 - 8 + 5 - 2.0$$

$$=$$
 2 + 5 - 2 · 0 $=$ 7 - 2 · 0 $=$ 5 · 0

bool
$$(20) \rightarrow \text{True}$$

bool $(-5) \rightarrow \text{True}$

$$7 > 5 \rightarrow true$$
 $-7 < -5 \rightarrow true$ $-7 == -6 \rightarrow False$

$$-7 > -5 \rightarrow False$$
 $-7 >= -7 \rightarrow true$ $-7 == -7 \rightarrow true$

$$-7 != -6 \rightarrow true$$

Assignment Operator { = }

$$a = 5$$

a == 5 // checks if a is equal to 5.

Logical operators

{ and, or, not }

Check if x is greater than y & 3. (x > y) and (x > 3)

Check if x is greater than y or less than z. (x > y) or (x < z)

Truth Table 0 -> False 1 -> True

r	y	x and y	xory
0	0	0	0
0	1	0	
	0	0	1
1	1	1	

not
$$(6 < 10) \rightarrow False$$
True