Java Operator Precedence Table

Precedence	Operator	Type	Associativity

15	`()`
	`[]`
	`.`
		Parentheses
		Array Subscript
		Member selection
			Left to Right

14	`++` `--`	Unary post-increment Unary post-decrement	Right to left

13	`++`
	`--`
	`+`
	`-`
	`!`
	`~`
	`( type )`
		Unary pre-increment
		Unary pre-decrement
		Unary plus
		Unary minus
		Unary logical negation
		Unary bitwise complement
		Unary type cast
			Right to left

12	`*`
	`/`
	`%`
		Multiplication
		Division
		Modulus
			Left to right

11	`+` `-`	Addition Subtraction	Left to right

10	`<<`
	`>>`
	`>>>`
		Bitwise left shift
		Bitwise right shift with sign extension
		Bitwise right shift with zero extension
			Left to right

9	`<`
	`<=`
	`>`
	`>=`
	`instanceof`
		Relational less than
		Relational less than or equal
		Relational greater than
		Relational greater than or equal
		Type comparison (objects only)
			Left to right

8	`==` `!=`	Relational is equal to Relational is not equal to	Left to right
7	`&`	Bitwise AND	Left to right
6	`^`	Bitwise exclusive OR	Left to right
5	`|`	Bitwise inclusive OR	Left to right
4	`&&`	Logical AND	Left to right
3	`||`	Logical OR	Left to right
2	`&:`	Ternary conditional	Right to left

1	`=`
	`+=`
	`-=`
	`*=`
	`/=`
	`%=`
		Assignment
		Addition assignment
		Subtraction assignment
		Multiplication assignment
		Division assignment
		Modulus assignment
			Right to left

Larger number means higher precedence

Type	Storage	Range of Values
byte	8 bits	-128 to 127
short	16 bits	-32,768 to 32,727
int	32 bits	-2,147,483,648 to 2,147,483,647
long	64 bits	-9×10^{18} to 9×10^{18}
float	32 bits	$\pm 10^{-45}$ to $\pm 10^{38}$, 7 significant digits
double	64 bits	$\pm 10^{-324}$ to $\pm 10^{308}$, 15 significant digits

Type	Description	Example of Literals
int	integers (whole numbers)	42, 60634, -8, 0
double	real numbers	0.039, -10.2, 4.2E+72
char	single characters	'a', 'B', '&', '6'
boolean	logical values	true, false