

2-9 Operators, Operands and Expressions

Definitions

- Operator: something that performs an operation (eg. +, -)
- Operand: something that you can perform an operation on. (eg. 73, var, 9.8)
- Expression: anything that results in a value usually involving both operators and operands (this is commonly thought of as a calculation (eg. 2+2))

Operators and precedence

Java follows a well-defined set of rules for governing what operations should be done first (algebraic order of operations or precedence).

Precedence	Operator	Operation	# of Operands	example
0	()	Parenthesize	1	(1+2)
1	+	unary plus	1	+1
	-	unary minus	1	-1
2	*	Multiplication	2	3 *4
	/	Division	2	3 /4
	%	remainder	2	3%4
3	+	Addition	2	2 + 3
	-	Subtraction	2	3 - 2
4	+	String concatenation	2	“the” + “dog”
	=	Assignment	2	Val = 3