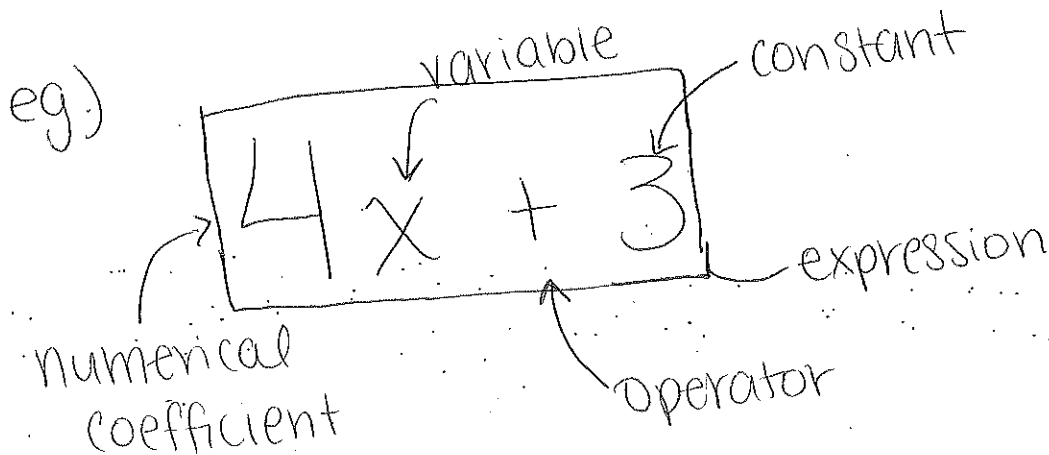


Grade 8 Math: Patterns and Relations

Variables and Expressions

- An expression is a mathematical phrase made up of numbers and variables, connected by operators.
 - o Variable: A letter or symbol used to represent a number
 - o Constant: A number that does not change
 - o Numerical co-efficient: A number that multiplies a variable
 - o Operators Symbols such as:
 - + adding
 - subtracting
 - x multiplying
 - ÷ dividing

these will tell you what operation to perform



Practice

Write the words as an *algebraic expression*.

1. Six times the length ^l plus 2 times the width ^w

$$6l + 2w$$

2. The cost ^c plus eight

$$1c + 8$$

3. Two times the height ^h minus 3

$$2h - 3$$

Write each expression in *words*.

1. $4x + 3$

four times a number plus three

2. $10 - 2x$

ten minus two times a number

3. $6x + y - 4$ ^{a number} _{another number}

six times a number plus another number
minus four.

Substitution