

2+2



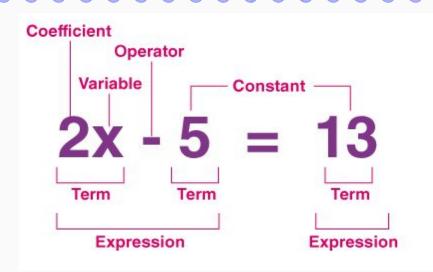


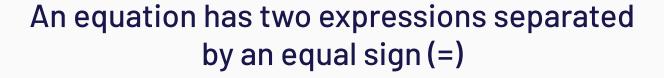
Composition of equation /



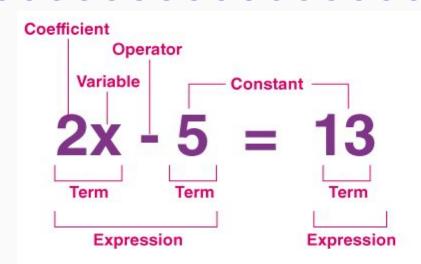


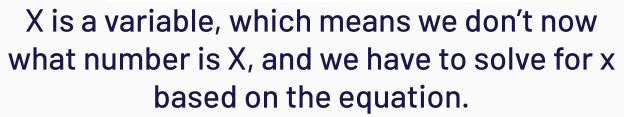


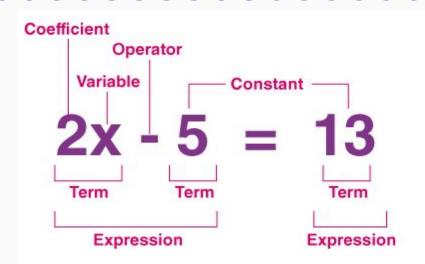


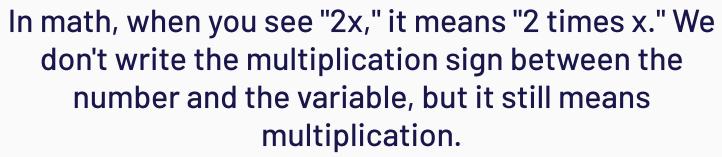












Examples:

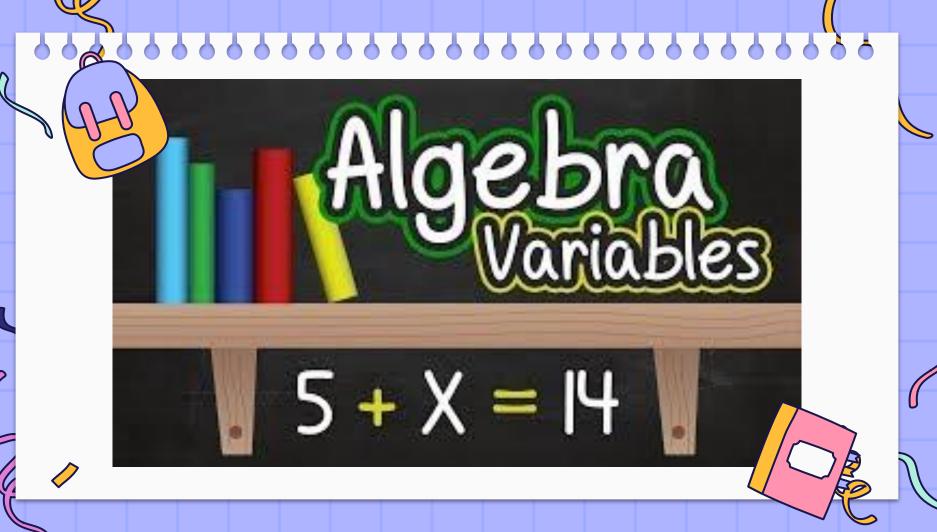
2 times X = 2X

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2 times Y = 2Y

2 times A = 2A

3 times B = 3B











Solving Equations







Steps to Solve:

Isolate the Variable: To isolate the variable means to get it alone on one side of the equation.

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For example, for equation:

$$3x + 5 = 11$$

isolating the variable x means making x the subject of the equation by performing operations to get it alone on one side, like "3x = 11 - 5."

Steps to Solve:

Undo Operations: "Undoing" means doing the opposite. If we added something, we can take it away. If we multiplied, we can divide.



For example:

$$y - 7 = 3$$

The variable "y" is on the left side of the equation. To undo the subtraction of 7, we add 7 to both sides of the equation to find "y."



Keep it Balanced: We want both sides to stay level or equal. Whatever we do on one side, we must do the same on the other so that both sides stay fair and equal.

It's like a balance. If we place an apple on one side, to keep the balance equal, we need to put another apple on the other side as well.

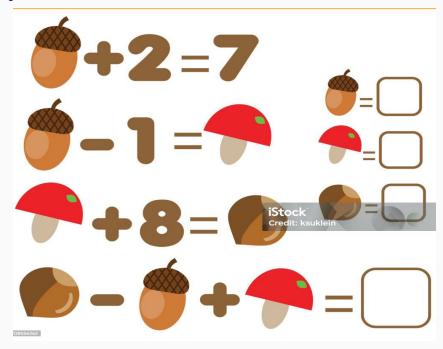




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Combine Like Terms







Combining like terms is a way of simplifying expressions by putting together terms that have the same variable part.

For example:

$$3X + 2X + 1 = 6$$

We have to Identify like terms first,

Terms with the same variable part (in this case, terms that have "X").

3X and 2X have the same term "X"

So, we can combine them together by doing 3X + 2X = 5X



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Simplify by combining like terms.

$$6k + 2 - 4k$$

$$-8h-5-9h$$







6.
$$5c = -50$$

11.
$$-2x = -2$$

2.
$$6a = 30$$

7.
$$8b = 8$$

12.
$$5y = -40$$

