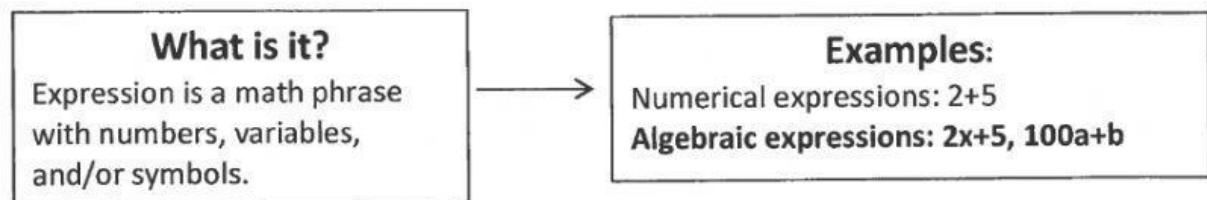


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Expressions



Expressions

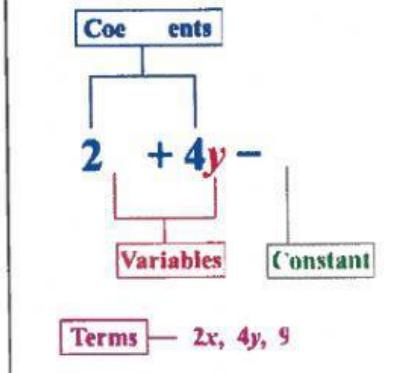
What includes in an algebraic expression?

1. Variables
2. Term
3. Coefficient
4. Constant

What do we do with an expression?

1. Translate verbal rules to expressions:
 - (1) Assign variables to represent unknowns
 - (2) Use clue/key words
2. Simplify expressions:
 - (1) Distribute property
 - (2) Collect (combine) like terms
2. Evaluate expressions
 - (1) Substitute variables with numbers
 - (2) Order of operations: PE_D^M A_S

Example:



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Parts of an expression

Vocabulary Variables	Definition Variables are _____ or _____ that represents _____.
How to find it Look for <u>letters or symbols</u> like x, y, z, a, b, c,.....	Example $2y+5$

Vocabulary Terms	Definition Terms are the parts of an expression that are being _____ or _____.
How to find it Looked of the parts of an expression that are separated by "+" or "-".	Example $2x+4y-8-c$ Terms:

Vocabulary Coefficients	Definition 1. Coefficients are _____ used to _____. 2. Coefficient takes the _____ in front of it. 3. If an coefficient is not written it is invisible _____.
How to find it Look for TERMS of an expression that have numbers in front of variables.	Example $2x-8-c$ The coefficient of $2x$ is _____. The coefficient of $-c$ is _____.

Vocabulary Constant	Definition 1. Constants are the _____ of an expression with _____. 2. Take the _____ in front of it.
How to find it Look for TERMS of an expression that have NO variable.	Example $2x-8-c$ The constant of the expression is _____. _____

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DO NOW!

1. Identify **terms** of algebraic expressions.

Expressions	# of Terms	List Terms
(1) $3x+2y+4z+8$	_____	_____
(2) $5y+6z$	_____	_____
(3) c^4	_____	_____
(4) $9x^2 - 4$	_____	_____
(5) $6j^4 + 5f^5 + 11$	_____	_____
(6) $7b-1$	_____	_____
(7) 9	_____	_____

2. Identify the **terms**, **coefficient**, **variable**, **exponent**, and **constant** as indicated.

Expression	Coefficient/s	Variable	Exponent	Constant
(1) $2k - 5$	_____	_____	_____	_____
(2) $5y+6z$	_____	_____	_____	_____
(3) $n^3 + 23$	_____	_____	_____	_____
(4) $5(-n)^3$	_____	_____	_____	_____
(5) $12q^2 + q - 2$	_____	_____	_____	_____
(6) $\frac{4}{5}r^2 - 3^2$	_____	_____	_____	_____