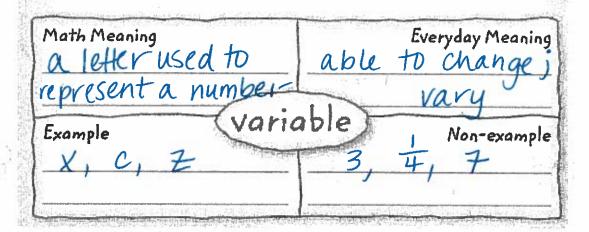


Vocabulary Start-Up



Algebra is a language of symbols including variables. A variable is a symbol, usually a letter, used to represent a number.

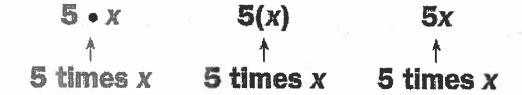
Scan the lesson to complete the graphic organizer.



<u>Aigebra</u> – a language of symbols including variables.
<u>Variable</u> - a symbol, usually a <u>leffer</u> used to represent a number.
Evaluate - to find the value of an
Algebraic Expressions - A combination of numbers, letters, and at least one Operation sign.

Any letter can be used as a variable.

The letter x is often used as a variable. To avoid confusion with the symbol x, there are other ways to show multiplication.



The variables in an expression can be replaced with any number. Once the variables have been replaced, you can evaluate, or find the value of, the algebraic expression.

Notes

Guided Practice

Evaluate each expression if m = 4, z = 9, and $r = \frac{1}{6}$

- 1.) 3 + m 3 + 4
 - シンチ

- 2.) Z m
 - 9-4

- 3.) 12/
- 212.16

- 4.) 4m 2
 - 4.4-2

- 5.) 60/ 4
 - 10-4

- 6.) $3f^2$ 3. $\frac{1}{6}$
 - 3. 36
- 7.) The amount of money that remains for a 20 dollar bill after Malina buys 4 party favors for p dollars each is 20 4p. Find the amount remaining if each party favor costs \$3.
 - 20-4p
- 20-4.3
- 20-12
- 8 12

Partner Talk

Why is the following expression an "Algebraic Expression?"

3x + 16

it includes letters (variables)

Building on the Essential Question - How are numerical expressions and algebraic expressions different?

* Numerical expressions include only numbers and operation signs.

* Algebraic expressions include letters, numbers, and operation signs.

Rate Yourself - Are you ready to move on? Shade the section that applies.

