

# Word Phrases

Coach Odom

Algebra 8

# Word Phrases

- A **variable** is a letter or symbol that stands for a number
- A **variable expression** is a group of numbers, variables, and operations

# Translating Words

- What are some words that mean addition?
  - Sum
  - More Than
  - Plus
  - Increased

# Translating Words

- What are some words that mean subtraction?
  - Difference
  - Minus
  - Decreased
  - Less than (a number)

# Translating Addition Phrases

- Write the number as a variable expression. Let  $x$  represent the number.

<u>Phrase</u>	<u>Translation</u>
The sum of 6 and a number	$6+x$
8 more than a number	$x+8$
A number plus 5	$x+5$
A number increased by 7	$x+7$

# Translating Subtraction Phrases

<u>Phrase</u>	<u>Translation</u>
The difference between 5 and a number	$5-y$
7 minus a number	$7-y$
A number decreased by 9	$y-9$
4 less than a number	$y-4$

Notice-order does matter on subtraction!!!

# Try these:

- Using Whiteboards:

Write the phrase as a variable expression.

Let  $x$  represent the number.

11 more than a number.

A number decreased by 10

# Try these:

- Write the phrase as a variable expression. Let  $m$  represent the number.

The difference of a number and 12

32 decreased by a number

25 less than a number

A number minus 75

# More Practice

- Write the verbal phrase as a variable expression. Let  $n$  represent the number.

The sum of a number and 11

15 increased by a number

20 more than a number

# Multiplication

What are some words that mean multiplication?

Product

Times

Multiplied

Of

# Division

- What are some words that mean division?

Quotient

Divided by

# Translate Multiplication Phrases

<u>Phrase</u>	<u>Meaning</u>
The product of 9 and a number	$9n$
10 times a number	$10n$
A number multiplied by 3	$3n$
One fourth of a number	$\frac{1}{4}n$

# Translate division phrases

Phrase

Meaning

The quotient of a number and 6

$$\frac{6}{n}$$

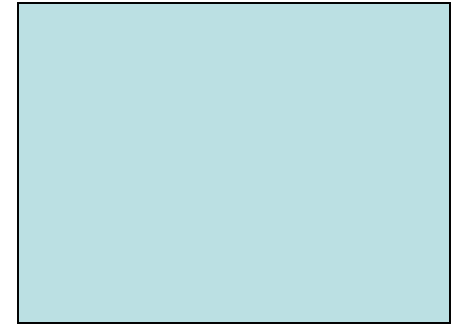
7 divided by a number



# Practice

- On Whiteboards, translate

The quotient of 8 and a number:



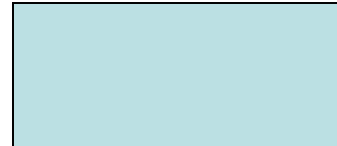
The product of 2 and a number:



The product of 17 and a number:



A number divided by 8



# Recap

- Math is a language, just like English.
- Certain words give us meaning in math
- What are some words for addition?
- What are some words for subtraction?
- What are some words for multiplication?
- What are some words for division?

Any questions?? 😊😊😊

# Questions

- Any Questions