

Objective: TSWBAT write algebraic expressions

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## Words that mean addition

- plus
- total
- Sum
- Increase
- altogether
- Deposit
- Gain
- more than
- larger
- Greater than

## Words that mean Subtraction

- Decrease
- less or less than
- Minus
- Difference
- How many more
- Withdrawal
- loss
- Spent
- Take away
- Give

## Words that mean Multiply

- Product

- times

- of

- Multiplied by

- each

## Words That Mean Divide

- Per

- Quotient

- Divided by

Operation	Word Phrase	Algebraic Expression
addition	a number plus 45 the sum of a number and 45 45 more than a number	$m + 45$
subtraction	a number minus 6 the difference of a number and 6 6 subtracted from a number	$p - 6$
multiplication	4 times a number the product of 4 and a number	$4k$
division	the quotient of a number and 25 a number divided by 25	$\frac{z}{25}$

**1****EXAMPLE****From Words to Expressions**

Write an expression for each word phrase.

**a.** 2 more than  $x$

$$x + 2$$

**b.** the product of 7 and  $k$

$$7 \cdot k, \text{ or } 7k$$

1a. Write an expression for the phrase "five divided by  $y$ ."

$$\frac{5}{y} \text{ or } 5 \div y$$

1b. Write an expression for the phrase "six times  $z$ ."

$$6z$$

1c. Write an expression for the phrase " $m$  increased by 3.4."

$$m + 3.4$$

You can use an algebraic expression to describe the relationship of data in a table.

### 3 EXAMPLE From Patterns to Expressions

Write an expression to describe the relationship of the data in the table.

$n$	
1	14
2	15
3	16

$$1 + 13 = 14$$

$$2 + 13 = 15$$

$$3 + 13 = 16$$

**Adding 13 to each number in the first column gives you the number in the second column.**

The expression  $n + 13$  describes the pattern.

3a. Write an expression to describe the relationship of the data in the table.

$n$	
2	1
6	3
9	4.5

$N \div 2$

3b. Write an expression to describe the relationship of the data in the table.

$n$	
2	6
5	9
7	11

$N + 4$

Home work:

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