

Notes 4.2

Operations

ADDITION	SUBTRACTION
Sum total more than together deposit	removed decreased by fewer than less than withdrawn plus add
MULTIPLICATION	DIVISION
of double twice per product squared Cubed	Quotient break divided by Split into

More Translations

- 1) The difference of a number h and 5 is 15.

$$h - 5 = 15$$

- 2) The quotient of n and 27 times the quantity of n and 4.

$$\frac{n}{27(n+4)}$$

- 3) The difference of a number b and the absolute value of -16.

$$b - |-16|$$

- 4) The opposite of -5 is no more than 16 and the sum of a number y .

$$-(5) \leq 16 + y$$

Parts of an Expression

What is an expression?

A statement consisting of letters, numbers, & operations

$$5a^3b^2 - 5ab + 5 - 2ab + a^3b^2 + ab + 8 - 2 - a$$

Terms		Coefficient	
$5a^3b^2$	a^3b^2	5	-2
-5ab	ab	-5	1
5	8		-1
-2ab	-2		
	-a		

* parts of an expression
Constant Term includes the sign

* The numbers attached to a variable

Like Terms

The numbers w/ no variables

Terms w/ the same variables that can be combined.

$$1) 6a + 3 - 5 + 4a + 43 - 15a$$

$$6a + 4a - 15a = \{-5a\}$$

$$3 - 5 + 43 = 41$$

$$-5a + 41$$

$$2) -8m + 16m - 24 - 32 + m^2 + mn$$

$$-8m + 16m = 8m$$

$$-24 - 32 = -56$$

$$m^2 \quad mn$$

$$8m - 56 - m^2 - mn$$

Homework: Parts of an Expression Worksheet

Modified: Parts of an Expression Worksheet (Matching: ALL, Fill-in-the-Blank: 1, 3, Translations: Evens)