Chapter 2-4 10/25

Simplifying Variable Expressions.

SWBAT: use properties of Addition and Multiplication to simplify variable expressions.

Vocabulary

TERM - is a part of an expression Separated by ADDITION or Subtraction.

$(2+4)$ or $(2t-4)$

$2t$ is a term. Once a solution is reached.

$t=5 \quad 2 \cdot t = 10$

Numerical Coefficient

is a number multiplied by a variable.

$2t$ 2 is the Num. Coeff.

Like Terms

have the same variables

$2t + 5t = 7t$

Like terms can be combined.

To ADD or Sub the Num. Coef.

Can NOT Combine $4 + 6x = 10x$

in it's simplest form!

To Simplify an Expression

Replace it with an equal expression that contains no Like Terms or parenthesis.

$4(5b)$ Associative Pr. of Mult.

$(4 \cdot 5) \cdot b$

$20b$ * Simple

Title: Oct 25 - 7:57 AM (2 of 4)

Invisible #1

a is a variable

The Identity Property of Mult EXISTS when there is "NO" Numerical Coeff.

$a = 1a$ or $1 \cdot a$

Constant - a quatity with a fixed (unchanged) value in a Math sentence.

$2t + 8$ ← Constant

$$4x + 3(3 + x) =$$

1st Step Distr. Pr. $4x + 3 \cdot 3 + 3 \cdot x$

Like Terms. $4x + 9 + 3x$

Comm Pr. $4x + 3x + 9$

$7x + 9$

DONE Simplified

1.) Parenthesis?

2.) Like Terms?