**Do Now:**

1. x (27 + 13) $40x$

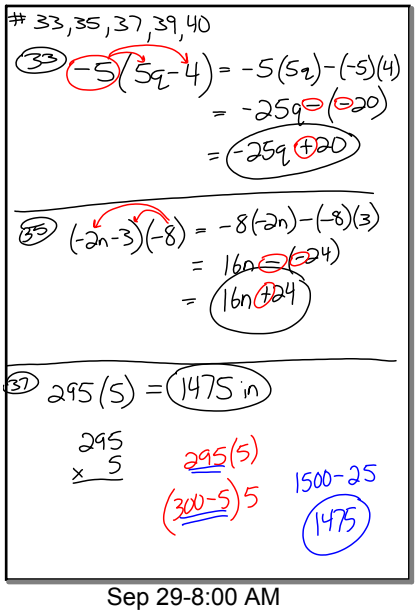
2. (z - 2) (-5) $-5z+10$

3. Are 2(x + 1) and 2x + 1 equivalent variable expressions? Explain.

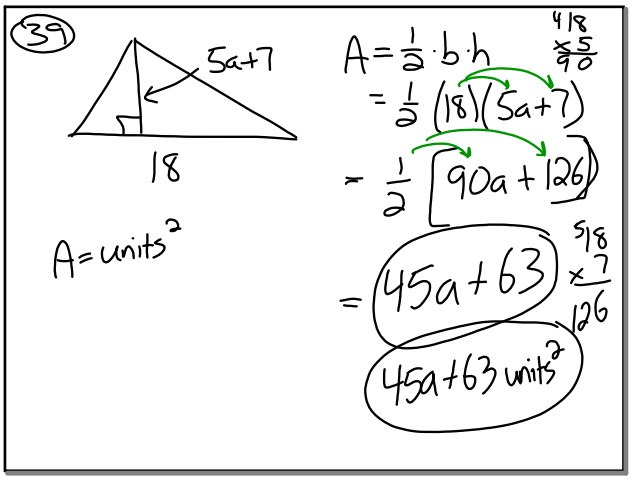
No $2(x+1)=2x+2$

and $2x+1$ is just $2x+1$.

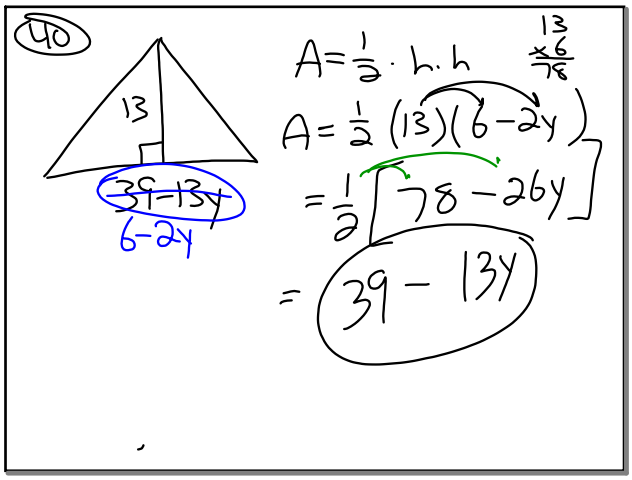
Sep 28-10:36 AM




Sep 29-8:00 AM




Sep 29-8:08 AM




Sep 29-8:11 AM

## 2.3 Simplifying Variable Expressions

7.NS.1
7.EE.1

- SWBAT simplify variable expressions.
- SWBAT identify the terms, the like terms, the coefficients, and the constant terms of an expression.
- SWBAT create, calculate, and simplify algebraic expressions involving variables.

Calculators: No

Sep 26-8:02 AM

**terms-** the parts of an expression that are added together

**like terms-** terms that have identical variable parts

**coefficient-** the number part of the term, located in front of the variable

**constant term-** a number without a variable attached

Sep 18-6:44 PM

Label the parts of the expression.

$5x + 4x + 7$

Terms 5x, 4x, 7

**Like terms** 5x, 4x

Coefficient 5, 4

Constant 7

Sep 26-8:04 AM

Identify Parts of an Expression

$y + 8 - 5y - 3$

Terms:

Like Terms:

Coefficients:

Constant terms:

Sep 26-8:06 AM

Identify Parts of an Expression

$13c - 4 - 5c - 6$

Terms: 13c; -4; -5c; -6

Like Terms: 13c, -5c

Coefficients: 13, -5,

Constant terms: -4, -6

Simplify:
13c-4-5c-6
13c-5c=8c
-4+(-6)=-10
8c+(-10)
-10+8c
8c-10

Sep 26-8:06 AM

# Simplifying an expression:

$4n - 7 - n + 9 =$ 3n+2

4n-1n = 3n
-7+9 = 2

Sep 27-8:42 AM

# Simplifying an expression:

$12k^3 - 9 - 7k^3 + 20$

12·k³ −7·k³

$12k^3 - 7k^3 = 5k^3$

$-9+20 = 11$

$5k^3+11$

Sep 27-8:42 AM

Simplifying an expression with parentheses:

a.) $2(x - 4) + 9x + 1$

2(x) - 2(4)

$2x - 8 + 9x + 1$

2x+9x = 11x
-8+1 = -7

11x-7

Sep 27-8:42 AM

b.) $3k - 8(k + 2)$

$-8(k) + (-8)(2)$

$3k - 8k + (-16)$

$3k - 8k = -5k$

$-5k + (-16)$

$-5k - 16$

Sep 22-2:32 PM

c.) $4a - (4a - 3)$

$-1(4a) - (-1)(3)$

$4a - 1(4a - 3)$

$4a - 4a = 0$

$4a - 4a - (-3)$

$0 - (-3)$

$0 + 3$

$3$

Sep 22-2:33 PM

Simplifying an expression with parentheses:

a.) $5(6 + b) + 4b - 9$ $9b + 21$

b.) $4m + 12 - 3(2m + 2)$ $-2m + 6$

$4m + 12 - 6m - 6$

c.) $15x - (10 + 15x)$ $-10$

d.) $8c + 2 - (c + 2)$

$8c + 2 - c - 2$

$7c$

Sep 27-8:42 AM

During Dahvin's workout, he spends a total of 45 minutes jogging and swimming. He burns 14 calories per minute while jogging and 8 calories per minute while swimming.

a. Let j be the time he jogs (in minutes). Write an expression in terms of j for the total calories Dahvin burns during the workout.

b. Find the total number of calories burned if he jogs for 20 minutes.

Oct 1-7:30 AM

**Exit Pass 2.3**

Describe and correct the error in simplifying 5a - (3a - 7).

5a - (3a - 7) = 5a - 3a - 7
= 2a - 7


Sep 18-6:42 PM

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the worksheet.


Sep 18-6:52 PM

## Reflection of Today's Lesson

**2.3 Simplifying Variable Expressions**
7.NS.1
7.EE.1
- SWBAT simplify variable expressions.
- SWBAT identify the terms, the like terms, the coefficients, and the constant terms of an expression.
- SWBAT create, calculate, and simplify algebraic expressions involving variables.

Sep 28-10:59 AM

## Homework

pg. 81 #10-32 evens
Quiz tomorrow on 2.1-2.3!


Sep 18-6:54 PM