Agenda

Homework:

Distributive Property
& Combining Like
Terms Worksheet

- Materials:
 - Notebook

DO NOW

- Complete the following problems on your DESK:
 - 1. SIMPLIFY

$$8x + 7 - 3x - 4$$

2. Approximate the square root of 67

Set Up Cornell Notes

- Topic: Distributive Property
- EQ: How do you simplify expressions by combining like terms?

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What is the Distributive Property?

The process of "distributing" (multiplying) the number on the outside of the parentheses to each TERM on the inside.

$$2(x + 5) = 2x + 10$$

What if there is ONLY a negative outside the parenthesis and NO number?

Use your math goggles!

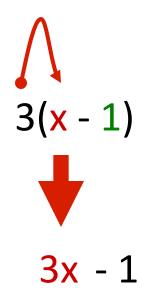
The invisible number when multiplying is

ALWAYS 1

So:

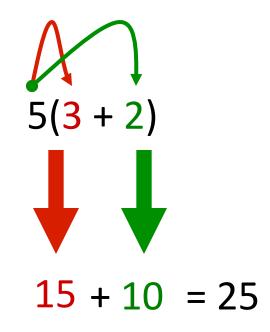
$$-1(x + 4) = -1(x) + -1(4) = -x + (-4)$$
$$= -x - 4$$

What is the most common error?



THIS IS INCORRECT!

Are we sure it works?



Proof: 5(3+2) = 5(5) = 25

Try these! ©

3 (5x + 2)	-7(x - 4)
4(y - 3)	-(3x + 9)

How do you use both distributive property and combining like terms together?



• Example:

$$3x - 4(x - 5) + 2$$

Distribute FIRST, then combine like terms