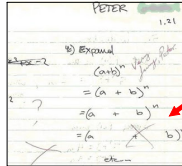


Math 7H - Unit 2a

Day 4 - Expand Linear Expressions

Lesson Objectives:

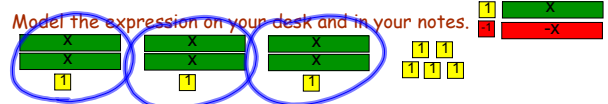
- I can apply properties of operations as strategies to expand linear expressions with rational coefficients.



This is NOT what we're talking about!

How could we describe in words $3(2x + 1) + 5$?

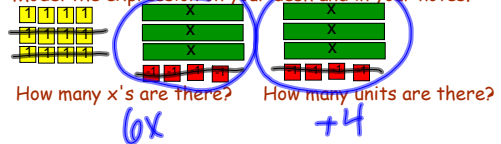
Model the expression on your desk and in your notes.



How many x's are there? How many units are there?

How could we describe in words $12 + 2(3x - 4)$?

Model the expression on your desk and in your notes.



How many x's are there? How many units are there?

Remember, an algebraic expression is in **simplest form** when it has no like terms and no parentheses.

$$5(n - 8) + 4n$$

$$5n - 40 + 4n$$

$$9n - 40$$

$$3(q + 1) - 1$$

Why do we use the distributive property BEFORE adding like terms?

$$3q + 3 - 1 \rightarrow 3q + 2$$

Simplify each expression.

$$1. 2(g + 4) + 5(g - 1)$$

$$2g + 8 + 5g - 5$$

$$7g + 3$$

$$3. 4.2(-5y - 3)$$

$$-21y - 12.6$$

$$2. 3(4z - 5) - 4(2z + 6)$$

$$12z - 15 - 8z - 24$$

$$4z - 39$$

$$4. 7x + 4\left(\frac{3}{4}x - \frac{1}{4}\right)$$

$$7x + 3x - 1$$

$$10x - 1$$

Homework

Expanding Linear Expressions WKS

* Individual Think Time *



What to do if you get stuck...

- Reread the problem. Did you write it down correctly?
- Reread your notes. Is there a problem similar that we did together in class?
- Find a problem similar in your book. Try this one to see if it helps.
- Skip the problem until the end of Individual Think Time. Then ask an "educated" question of a neighbor or Mrs. Call.

Today we're working by...

