

Pick up Warm Up Sheet (on table)

*This is WEEK 4 (put on top by your name)

Warm Up

Find the Product:

$$1) 5(w + 6) \quad 5(w) + 5(6) \quad 2) 2(x - 3)$$

$$= 5w + 30$$

$$2x - 6$$

$$3) (y + 6)(-3)$$

$$-3y + -18$$

$$4) -1(x - 4)$$

$$-1x + +4 = -x + 4$$

Homework Questions?

$$52) \quad -\frac{3}{8}(x + 24)$$

$$-\frac{3}{8}x + \frac{-3}{8} \cdot \frac{24}{1}$$

$$\begin{array}{r} 24 \\ \times 3 \\ \hline 72 \end{array}$$

$$-\frac{3}{8}x + \frac{-72}{8}$$

$$-\frac{3}{8}x + -9$$

40) $5 \left(\frac{1}{10}x - \frac{2}{15} \right)$

$$\frac{5}{1} \cdot \frac{1}{10}x - \frac{5}{1} \cdot \frac{2}{15}$$
$$\frac{5 \div 5}{10 \div 5}x - \frac{10 \div 5}{15 \div 5}$$
$$\frac{1}{2}x - \frac{2}{3}$$

On the top of your paper (by your name) rate yourself for this section:

4 - I can summarize the concepts and explain it to others

3 - I can apply the concept to answer questions correctly

2 - I can apply the concepts but with some mistakes

1 - I need help and know how to apply the concept

0 - I can't apply the concept, even with help

Rating of 0-2 is a warning signal to me that you need help

2.5 Quiz Retake

*If you scored BELOW 15, you can opt to retake the quiz by **THURSDAY** this week

*Do POL Assignment, SHOW ME, then can Retake before/after school

2.5 POL

p.784 #10-34even

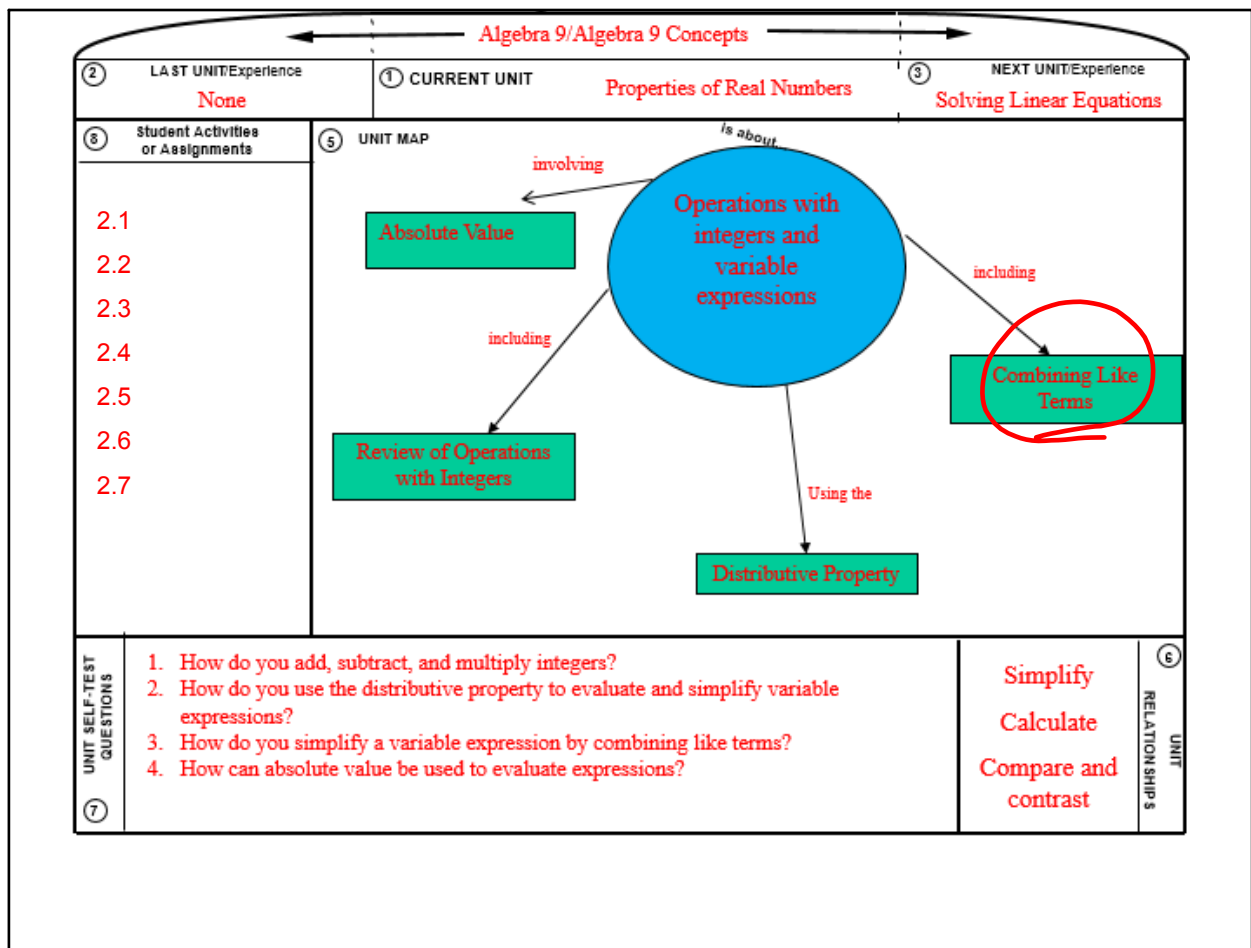
*No Calculator

2.7 Combining Like Terms

Goals:

- Simplify an expression by combining terms.

EQ: What is a like term?



Vocabulary

Coefficient:

Number in front of the letter
ex: 3x

Like terms:

Same letter & same power

ex: $\underline{3x^2} + \underline{2x} + \underline{4x^2} - 4$
 $= 7x^2 + 2x - 4$

Simplified expression:

- No () left in expression
- Like terms are together

Example 1: Identify Like Terms

Simplify the like terms in the expression

$$\underline{x^2} + \underline{3x} - \underline{7x^2} - \underline{3} \cdot \underline{x}$$

$$-6x^2 + 2x - 3$$

*Note: -x has a coefficient of -1 even though the 1 isn't written. Similarly, x has a coefficient of 1.

Try It Identify the like terms in the expression and simplify.

1. $\underline{5x^2} - 2x + \underline{10x^2}$

$$15x^2 + -2x$$

$$15x^2 - 2x$$

2. $\underline{-4b} + 9 - \underline{6b}$

$$-10b + 9$$

3. $\underline{13} - \underline{4h^2} - \underline{3h} + \underline{8} + \underline{5h}$

$$2h + 21 - 4h^2$$

$$21 - 4h^2 + 2h$$

4. $\underline{6y} + \underline{10} - \underline{5y^2} - \underline{4} - y^2$

$$-6y^2 + 6y + 6$$

Example 2: Combine Like Terms

Simplify the expression.

a. $\underline{7x^2} - \underline{3x^2}$

$$4x^2$$

b. $\underline{4x} - \underline{2x} + \underline{6x} - 3$

$$\underline{4x} + \underline{4x} - \underline{3}$$

$$8x - 3$$

****Note:** In Example 2(b), the distributive property has been extended to three terms: $(b + c + d)a = ba + ca + da$

More Practice Wkst

(on Doc Camera)

2.7 Homework

Combining Like Terms wkst

Example 3: Simplify Expressions with Grouping Symbols

Simplify the expression.

a. $6 - 4(x - 2)$

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

Try It Simplify the expression.

5. $4y + 5y - 4$

6. $6x + 3 - 4x + 2x$

7. $7m - 2 + 4(4 - m)$

8. $-5(n - 3) + 7(1 - n)$

Summary

EQ: What is a like term?

2.7 Homework

Combining Like Terms wkst