Name:	Date:	Aug 20	Hour:
Unit 1 Day 2: Expressions			

Focus Question: What are like terms in an expression?

A. Review

- 1. Using the term 4x
 - a. What is the coefficient?
 - b. What is the variable part?
 - c. Is it a constant? Explain. No, it has a letter.
 - d. What is it expanded? 4 ° ×
 - 2. Multiplication is Replected

B. Expressions

When terms are linked using addition or subtraction signs, we have what is called an expression. 4x is a term but x + x + x + x is an expression with 4 terms.

10		** 1116	140	7
a.	4x	-2		
		2	X	

b.
$$5x^3 + 2x^2 - 7x + 3$$

c.
$$-6x^4$$

Tell how many terms are in each of the following expressions.
a.
$$4x-2$$
 b. $5x^3+2x^2-7x+3$ c. $-6x^4$ d. $2x^5-3x^2+8$

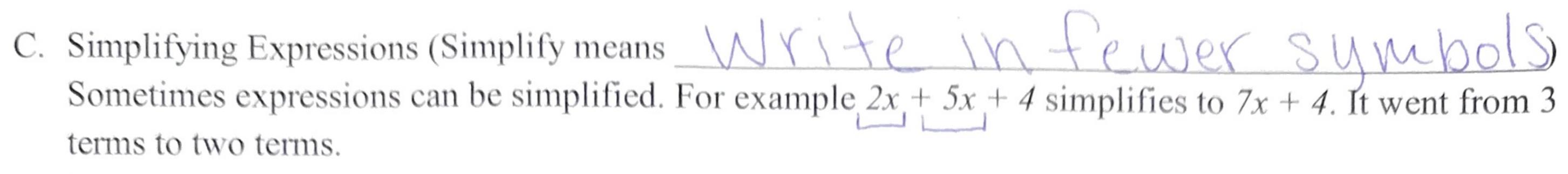
2. Fill in the table together to practice knowledge of expressions and terms.

Expression	6x + 2 - 7x	$2x^4-3$	$-2x^2 + 4x - 3 + 7x^2$
# of terms	3	2	4
Coefficients	6,2,-7	2	-2,4,-3,7
Constants	2	-3	-3

^{*} The sign goes with the number behind it. "Minus" and "negative" can be confusing because we use the same symbol to mean both words (subtraction is really just adding a negative). The first expression is said "Six x plus 2 minus seven x" but the coefficient on the third term is "negative seven."

3. Practice with a partner (Rally Coach Again)

Partner that Writes and Explains	A	В
Expression	$2x^4 + 6x - 8x + 5$	$-3m^2 - 8m + 2$
Number of Terms	4	3
Coefficients	2,6,5	-3,-8,2
Constants	5	



Sometimes expressions cannot be simplified. For example $3x^2 + 7x + 8$ cannot be simplified. It is three terms and must remain 3 terms.

When someone says "combine like terms..."

"Like terms" have the same Variable Dart (exact same letter & exponent

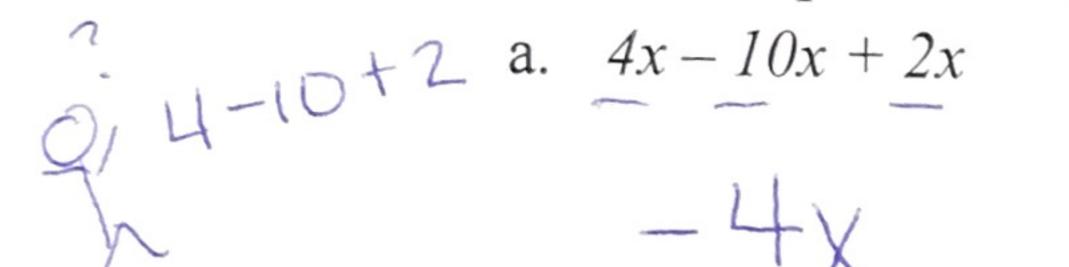
And you "combine" the COC+Ficov+S

Explain why each expression below CANNOT be simplified:

a.
$$3x^2 + 6m^2$$

c. 4x + 2

Simplify each expression below (use a calculator for positives and negatives!) You should always write a simplified form of the same expression underneath the original expression.



a.
$$4x - 10x + 2x$$

b.
$$-8 + 5$$

c.
$$10 - 14 + 3$$

ssion.

d.
$$-3x - 2x$$
 $3x - 3x - 3$

Write each expression below in its most simplified form. If it already is in its most simplified form, explain why.

a.
$$5x^2 + 3x - 8$$

Already simplified the variable parts are diff.

b.
$$-6x + 2x - 9 + 7x + 14$$

c.
$$4x + 5x - 10$$