Unit: Linear Equations
Homework 1

Name _____

Date _____ Pd_____

SIMPLIFYING EXPRESSIONS

Match each expression with the correct simplified expression. Use the corresponding letter with each solution to help you solve the riddle.

❶ $4x - 2x - 20x + x$	❷ $-\frac{4}{7} + \frac{2}{7}x - 14x + \frac{4}{7}$
❸ $7 - 9x - 15 + 12x$	❹ $-2.4x + 3.8x - x$
❺ $-.8x + 40 - 8x - 35$	❻ $12\frac{5}{6}x - 14x + \frac{1}{6}x$
❼ $-3x + 14 - 11 + 11x$	❽ $3.75x - 5 - 8.75x + 4.5 + 0.5$

A $-5x$	E $-8.8x + 5$	O $3x - 8$	L $0.4x$	G $-x$	W $8x + 3$
R $-17x$	B $-13\frac{5}{7}x$	M $-8x$	U $-2\frac{1}{6}x$	D $-13\frac{1}{7}x$	N $-5.5x$

WHAT IS A BIRD'S FAVORITE SUBJECT?

___ ___ ___ ___ ___ ___ ___ ___

3 7 4 6 5 2 1 8

Unit: Linear Equations
Homework 2

Name _____

Date _____Pd_____

SIMPLIFYING EXPRESSIONS WITH DISTRIBUTIVE

1. In order for terms to be like terms, they must have…

a. The same variable
b. The same coefficient
c. The same exponent
d. Both a and c

2. Which of the following is an example of a set of like terms?

a. {19y, 19, y}
b. {18x, -x, 21x}
c. {15, 20, 25y}
d. {-2x, -2y, -2xy}

3. Which is the correct simplified version of the expression $5(-9x + 15)$?

a. $-4x + 20$
b. $-45x - 75$
c. $-45x + 75$
d. $14x + 20$

4. Which is the correct simplified version of the expression $-7(2x - 3)$?

a. $-14x + 21$
b. $-14x - 21$
c. $-5x - 10$
d. $-14x - 10$

5. Simplify the expression.

$9n + 18(2n - 6) + 13$

_____

6. Simplify the expression.

$8.5(4 + 3h) - h$

_____

7. Simplify the expression.

$-d - 10.25(16d - 4)$

_____

8. Simplify the expression.

$\frac{3}{2}(4f - 10)$

_____

9. Simplify the expression.

$-\frac{1}{9}(5g - 3) + \frac{2}{9}g$

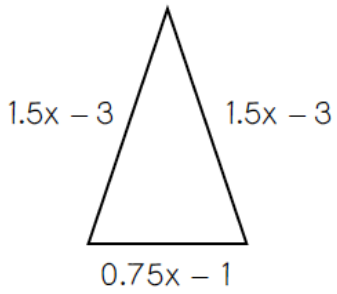
_____

10. Simplify the expression.

$3\frac{2}{3}k + \frac{1}{3}(42 + 48k)$

_____

11. Write a simplified expression for the perimeter of the triangle.



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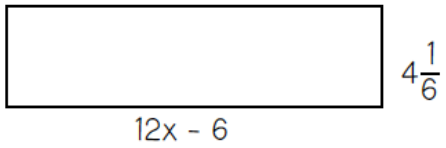
12. Write a simplified expression for the area of the rectangle.



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