

Name: \_\_\_\_\_

Mr. Williams

Date: \_\_\_\_\_

Class: \_\_\_\_\_

Topic: Adding and Subtracting Linear Expressions

# Homework Day 3

## What Did The Candle Say To The Match?

Write the letter of each answer in the box containing the exercise number.

Find the sum.

1.  $(x + 10) + (x - 14)$

2.  $(9 - 2x) + (6x + 4)$

3.  $(3x - 7) + (-4x - 8)$

4.  $(2x - 7) + 5(x - 3)$

5.  $6(-2.3x - 5) + (4x + 11)$

6.  $(8 - 2x) + 3(4.5x + 9)$

7.  $\frac{1}{2}(8 - 4x) + \frac{1}{3}(9x - 6)$

8.  $-\frac{3}{4}(3x + 7) + \frac{1}{4}(12x + 20)$

Find the difference.

9.  $(-3x + 8) - (x + 10)$

10.  $(5x + 4) - (1 - 2x)$

11.  $(3 - 4x) - 3(2.4x - 7)$

12.  $(4x - 8) - 4(-6.5x + 5)$

13.  $\frac{1}{9}(-9x + 18) - \frac{1}{5}(10 + 15x)$

14.  $\frac{4}{7}(4x + 3) - \frac{1}{7}(9x + 5)$

15.  $\frac{1}{2}(-4x + 8) - \frac{1}{4}(8x - 12)$

16. Your class project involves recycling aluminum cans. After  $x$  weeks, your class has  $(13x + 50)$  aluminum cans. The class goal is to collect  $(80x + 120)$  aluminum cans. How many more aluminum cans does your class need to collect?

**Answers**

U.  $-4x - 2$

P.  $30x - 28$

T.  $-9.8x - 19$

E.  $x + 2$

I.  $2x - 4$

L.  $67x + 70$

H.  $-11.2x + 24$

Y.  $7x - 22$

I.  $4x + 13$

U.  $\frac{3}{4}x - \frac{1}{4}$

G.  $x + 1$

L.  $-4x + 7$

Y.  $11.5x + 35$

F.  $-4x$

M.  $7x + 3$

O.  $-x - 15$

6	3	9		16	2	14	11	5		8	12		10	4		15	1	13	7
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