Student Name:

Simplifying Expressions Worksheet

Directions: Answer each question below, showing all pertinent work.

1. Simplify each of the following expressions.

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a. $-3(x + 3) + 4x$	b. d + 3cd – 7c + 3cd + 2c
c. $xy + 4x - 3xy - x$	d. ab – 2ac + cb
e. 4t + 10t	f4(5x)
g10x - x	h. 4 + 7(x + 3)
i. 5(–2xy)	j, -k + 3(4k -1) + 2
k. 6(-2y) - 9 + 4(-2y + 6)	I. 5(b – 4) + 12

2. Explain and correct the error made by a student who simplified this expression.

$$-2x + 7x + 8$$

 $(-2 + 7 + 8)x$
 $13x$

3. Explain and correct the error made by a student who simplified this expression.

$$-2 + 7(x + 8)$$

5(x + 8)
5x + 40

4. Explain and correct the error made by a student who simplified this expression.

$$-2x - 4x + 8y - y$$

 $(-2 - 4)x + (8 - 0)y$
 $-6x + 8y$