

Algebra I  
Review for Quiz #6  
4.1-4.2

NAME: \_\_\_\_\_  
DATE: \_\_\_\_\_ HOUR: \_\_\_\_\_

You may NOT use a calculator on the quiz.

**Part I. Draw algebra tiles to illustrate the Distributive Property.**

1.  $3(x - 4) = (x - 4)$  3 times

2.  $2(3x + 4) = (3x + 4)$  2 times

$3(x - 4) =$  \_\_\_\_\_

$2(3x + 4) =$  \_\_\_\_\_

**Part II. Evaluate.**

1.  $(-3)(-10) - (2 \cdot 5) =$  \_\_\_\_\_

2.  $(-1)(-5)(100) =$  \_\_\_\_\_

3.  $-3[(-4) \div (4)] =$  \_\_\_\_\_

4.  $(-1)(-50) \div (-10) =$  \_\_\_\_\_

5.  $-8 - [5 + (-4)] =$  \_\_\_\_\_

6.  $-(-5 \cdot 2) + (12 \div -2) =$  \_\_\_\_\_

7.  $(-2) - (2)(-4) =$  \_\_\_\_\_

8.  $-7[(-9 \div 3) + (4 \div 2)] =$  \_\_\_\_\_

**Part III. Simplify (write your terms in the proper order). Show your work.**

1.  $7a - (1 - 4a)$

2.  $-3(2x + y) - 5(x - y)$

\_\_\_\_\_

\_\_\_\_\_

3.  $-8(a - b) + 3(a - b)$

\_\_\_\_\_

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

\_\_\_\_\_

5.  $\frac{100w + 10}{-10}$

\_\_\_\_\_

6.  $\frac{-8 + 20d}{-4}$

\_\_\_\_\_

7.  $-(3r + 8) + 4(-r + 1)$

\_\_\_\_\_

8.  $2(3a + 4b - c) + 4(-a + c)$

\_\_\_\_\_

9.  $[3(a - 2b) + 5] + [4(a + b + 2)]$

\_\_\_\_\_

10.  $[1 + 5(x + y)] - [-3(x - 2y) + 2]$

\_\_\_\_\_

**Part IV. Solve.**

1. Mr. Lount opened a savings account with \$200. He made deposits of \$60 and \$15 and withdrew \$50. What amount was left in his account?

\$ \_\_\_\_\_

2. A furnace repair company charges \$45 for a service call plus \$50 per hour. Write an **expression** for the amount to be charged for a service call that takes  $h$  hours.

charge: \_\_\_\_\_

3. Mr. Hartley needs to **average** the number of points his team scored in the last 5 basketball games.

points: 42, 58, 62, 38, 50

average: \_\_\_\_\_