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

Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CC Algebra

 Cumulative Review #2.1

 **Show work for all questions for full credit**

**& write your answers on the lines provided!!!**

(*If you feel no work is needed you must explain your reasoning.)*

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_

2. The length of a side of a square is described by the expression 4x – 8. What is the perimeter of this square in terms of x?

 A. P = 8x − 16

 B. P = x − 2

 C. P = 16x2 – 64x + 64

 D. P = 16x – 32

 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Given − x −  ≥ 7x + 3, which property is used below?

 3(− x − ) $\geq $3(7x + 3)

 A. Distributive Property

 B. Multiplication Property of Inequality

 C. Subtraction Property of Inequality

 D. Associative Property of Multiplication

 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Which system of equations has no solution?

 A. y = 4x – 9 and y + 4x = 3

 B. y = 2x and 2y = x – 9

 C. y + x = 0 and y = x

 D. y = 3x + 7 and y – 3x = −2

 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Is the point (−4, −5) on the graph of the line whose equation is y – 2x = 6?

 5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. The Acme Concrete Company needs to deliver 15c2 + 8c − 24 cubic yards of concrete to a particular client in a single day. So far they have delivered 12c2 – 16c + 38 cubic yards. How many more cubic yards (in terms of c) must be delivered to fulfill their client’s order?

 6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Six times a number decreased by seven is the same as four times the number increased by three. What is the number? [Only an algebraic solution will be accepted.]

 7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Write the equation of the line passing through the points (1, 1) and (3, 0).

 8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Solve the following system of equations algebraically and check your answer.

 5x + y = 15

 3x + y = 11

 9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. The perimeter of a rectangular garden is 320 yards. If the length is 8 yards less than 3 times the width, what are the dimensions of the garden? *[Only an algebraic solution will be accepted.]*

 10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_