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

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

Cumulative Review #1.5

**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. A ride in a taxi costs $3.50 plus $0.35 for every mile traveled. If Sam travels x miles, then which of the following algebraic expressions represents the cost of the trip?

A. $3.50 + $1.40x

B. $3.50 + $0.35x

C. $3.85x

D. $0.35 + $3.50x

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

2. The statement “the sum of twice a number and 18 is greater than 25” can be expressed as

1. 2n + 18 = 25 C. 2(n + 18) < 25
2. 2(n + 18) > 25 D. 2n + 18 > 25

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

3. Solve and write the solution in interval notation of the following inequality.

7w − 3(6 + 2w) ≤ 3(w − 8)

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

4. A family has an income of $2,340 each month. The family spends  of its income each month on housing. How much of the family’s income (in dollars) remains after spending  of it on housing?

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

5. Solve and check.

8a − 3(5 + 2a) = 85 − 3a

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