**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CC Algebra**

**September 20, 2016**

**Equations Word Problems**

1. Find three consecutive integers such that their sum is 48.
2. Nine times the first of three consecutive odd  integers is three less than six times the third integer. Find the smallest odd integer.
3. For her cell phone service, Vera pays $32 a month, plus $0.75 for each minute over the allowed minutes in her plan. Vera received a bill for $47 last month. For how many minutes did she use her phone beyond the allowed minutes?
4. A rectangle's length is 3 feet longer than its width. Its perimeter is 62 feet. What are the rectangle's dimensions?
5. Find two consecutive even integers such that  four times the first equals ten more

than three  times the second.

1. The greater of two numbers is twice the smaller. If the greater number is increased by 6, the result is 10 less than three times the smaller. Find the two numbers.
2. The ages of three sisters are consecutive even  integers. Four times the age of the youngest sister is  26 years more than the oldest sister's age. What is  the age of the oldest sister?
3. To repair body damage on a car, AutoBody charges $125 plus $18 per hour. CarCare charges $200 plus $12 per hour. Determine the number of hours for which the two body shops will cost the same.
4. The sum of the ages of the three Romano  brothers is 63. If their ages can be represented  as consecutive integers, what is the age of the middle brother?