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

**CC Algebra**

**Solving Quadratic Equation Word Problems**

1. If 18 is subtracted from twice the square of a positive integer, the result is equal to nine times the integer. Find the integer.

2. The product of two positive consecutive even integers is 120. Find the integers.

3. A student is painting an accent wall in her bedroom. The length of the wall is three feet more than its width. The area of the wall is 130 square feet. What are the dimensions of the accent wall?

4. The length of a rectangle is 5 more than the side of a square and the width of the rectangle is 1 more than the side of the square. If the area of the rectangle is 96, find the length of the side of the square.

5. One of two positive integers is 8 more than the other. If the product of the two integers is 84 find the integers.