

Name: _____

8A; Algebra 1

Date: _____

Period _____

Quadratic Word Problems

(Use LESC)

1) The square of a number decreased by 4 times the number equals 21. Find the number.

2) A certain number added to its square is 30. Find the number.

3) The product of two positive consecutive even integers is 80. Find the integers.

4) Find two positive numbers in the ratio 2:3 whose product is 2,400.

5) Find three consecutive positive integers such that the product of the second integer and the third integer is 20.

6) The length of a rectangular garden is 4 meters more than its width. the area of the garden is 60 square meters. Find the dimensions of the garden.

7) The ratio of the measures of the length and width of a rectangle is 7:5. The area of the rectangle is 1,715 square feet. Find the dimensions of the rectangle.

8) The base of a parallelogram measures 7 centimeters more than its altitude. If the area of the parallelogram is 30 square centimeters, find the measure of its base and the measure of its altitude.

9) One number is 5 more than another. Their product is 14. Find the numbers.

10) Find the smallest of three consecutive positive integers such that the product of the two smaller integers is 38 more than twice the largest.

11) Nine times a certain number is 5 less than twice the square of the number. Find the number.