Quadratic Word Problems:

Consecutive Integer Examples

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Geometric Examples

**Examples:**

1. When the square of a certain number is diminished by 9 times the number the result is 36. Find the number.
2. A certain number added to its square is 30. Find the number.
3. The square of a number exceeds the number by 72. Find the number.
4. Find two positive numbers whose ratio is 2:3 and whose product is 600.
5. The product of two consecutive odd integers is 99. Find the integers.

**Examples:**

1. The ratio of the measures of the base and the altitude of a parallelogram is 3:4. The area of the parallelogram is 1,200 square centimeters. Find the measure of the base and altitude of the parallelogram.
2. The altitude of a triangle is 5 less than its base. The area of the triangle is 42 square inches. Find its base and altitude.
3. The length of a rectangle exceeds its width by 4 inches. Find the dimensions of the rectangle it its area is 96 square inches.
4. If the measure of one side of a square is increased by 2 centimeters and the measure of the adjacent side is decreased by 2 centimeters, the area of the resulting rectangle is 32 square centimeters. Find the measure of one side of the square.