Teacher Name: Ambreen Badar Class: 8 Subject: Mathematics Date: 16th Nov’ 2018

Topic: Solving word problems involving quadratic equations

Q1: The sum of the squares of three consecutive positive numbers is 245. Find the largest number.

Q2: The product of two numbers is 154. If the difference between the two numbers is 3, find the

 numbers.

Q3: The sum of the squares of two consecutive even integers is 340. Find the two numbers.

Q4: The sides of the angles are of length(2x + 1)cm and(3x + 1)cm. The area of the rectangle is

 117cm2. Find the value of ‘x’ and the perimeter of rectangle.

Q5: When a number is divided by 4 and 28 is added to it, the result is equal to twice the number.

 Find the number?

Q6: If I subtracted 9 from 5 times a certain number, the result is 19 more than the original number.

 What is the number?

Q7: The product of two numbers is 65. Their difference is 8. Find these number.

Q8: The length of a rectangle is 5 cm more than its width and the area is 50 cm2. Find the length,

 width and the perimeter.

Q9: The sum of numbers is 9. The squares of the numbers are 41. Find the numbers.