



E-Worksheet

Teacher Name: Ambreen Badar Class: 8 Subject: Mathematics

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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 117cm^2 . 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 cm^2 . Find the length, width and the perimeter.
- Q9: The sum of numbers is 9. The squares of the numbers are 41. Find the numbers.

