



Study Point Coaching Classes

Near Bandhan Restaurant, Gonda Road, Bahraich – 271801

Mob.No. - 7355689216



Mathematics-DPP-Class-X

(Word Problems On Quadratic Equations)

- (1) The age of man is twice the square of the age of his son. Eight years hence, the age of the man will be 4 years more than three times the age of his son. Find their present ages.
- (2) The total cost of a certain piece of wire is ₹200. If the piece was x metres longer and each metre of wire costs ₹ 2 less, the cost of the piece would have remained unchanged. How long is the piece and what is its original rate per metre?
- (3) The difference of squares of two numbers is 180. The square of the smaller number is 8 times the larger number. Find the two numbers.
- (4) The denominator of a fraction is one more than twice the numerator. If the sum of the fraction and its reciprocal is $2\frac{16}{21}$, find the fraction.
- (5) The sum of squares of two consecutive even numbers is 340. Find the numbers.
- (6) The sum of squares of two consecutive multiples of 7 is 637. Find the multiples.
- (7) If a man walks 1km/hr faster than his usual speed then he covers a distance of 3km in 15 minutes less time. Find his usual speed.
- (8) The diagonal of a rectangular field is 16m more than the shorter side. If the longer side is 14m more than the shorter side then find the lengths of the sides of the field.
- (9) The sum of a number and its reciprocal is $2\frac{1}{30}$. Find the number.
- (10) If the sum of two natural numbers is 27 and their product is 182, find the numbers.