

Activity: 2

One side of a rectangle is 2cm longer than the other side and its area is 168 square centimetres. What are the lengths of the sides?



Activity: 3

A rod 32 cm long is to be bent to make a rectangle. Its area is 60cm². Calculate the lengths of the sides?

Activity: 4

A 2m wide portion is taken from the eastern side of a square shaped playground to make a road. The area of the remaining portion is 440 square metres. What are the length and breath of the remaining portion ?



2 m





LESSON:SECOND DEGREE EQUATIONS

Activity:1

The product of a number and 4 added to it ,gives 221.What are the numbers?

Activity:2

In a right angled triangle, one of the perpendicular sides is 2 cm longer than the other side and its area is 24cm². What are the lengths of its sides?

Activity:3

16 added to the sum of the first few terms of the arithmetic sequence 9,11,13......gives 256. How many terms are added ?

Activity:4

The length of a rectangle is 3 cm more than thrice its breadth. Its diagonal is 1 cm more than the length. What are the length and breadth of the rectangle ?

(Hint:Let the breadth=x and length=3x+3)



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Class: 10 Subject: Maths Date: 19-10-20 Worksheet No: 35
Lesson : Second Degree Equations
- Activity 1
Find two numbers with sum 10 and product 20.
sum = 10 if first number is x, then second number = 10 product = 20 then, $x(10) = 20$ 10x = $-x^2 + 10x =$ $x^2 - 10x =$ $x^2 - 10x + = + 5^2$ $(x - 5)^2 =$ $(x - 5) = \pm $ $x = 5 \pm $
if $x = 5 + \sqrt{\dots}$ first number $= x = 5 + \sqrt{\dots}$ second number $= 10 - (5 + \sqrt{\dots})$ $= 5 - \sqrt{\dots}$ if $x = 5 - \sqrt{\dots}$ first number $= x = 5 - \sqrt{\dots}$ second number $= 10 - (5 - \sqrt{\dots})$ $= 5 + \sqrt{\dots}$
Activity 2 If the sum and product of two numbers are 6, find the numbers.

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Find the values of \mathbf{x} in the following second degree equations.

- 1) $x^2 + 5x + 6 = 0$
- 2) $2x^2 + 9x + 4 = 0$
- 3) $4x^2 + 13x + 3 = 0$
- 4) $3x^2 + 5x + 2 = 0$

