



# Silent Bells



ഫസ്റ്റ് ബെൽ - അനുബന്ധ പഠനസഹായകസാമഗ്രി

Class: 10

Subject: MATHS

Date: 05/10/2020

WorksheetNo: 28

Lesson : MATHEMATICS OF CHANCE

## ACTIVITY 1 :

A box contains four paper slips numbered 1,2,3,4 and another box contains two paper slips numbered 1,2. If one slip is taken from each ,

- Write all the pairs of numbers.
- How many pairs are there?
- Write the pairs in which both the numbers are odd.
- How many pairs are there in which both the numbers are odd?
- Write the probability of getting both numbers are odd
- Write the pairs in which both the numbers are even
- How many pairs are there in which both the numbers are even?
- Write the probability of getting both numbers are even

## ACTIVITY 2:

One is asked to say a three digit number. What is the probability that :

- All the digits of the numbers are same.
- The number is a multiple of 6.

## ACTIVITY 3:

Two slips of paper marked 5 and 10 are put in a box and three slips marked 1,3,5 are put in another. One slip from each box is taken :

- What is the probability that both show odd numbers?
- What is the probability of getting one odd number and one even number?

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Class :X

Subject : Maths

Date :6/10/20

Worksheet No :29

## LESSON:Mathematics of chances

### Activity :1

In a class, out of 50 students 30 are boys.25 out of 40 students in another class are also boys. One student is selected from each class

- What is the total number of pairs?
- What is the probability for both students to be boys?
- What is the probability for both students to be girls?
- What is the probability for the students to be a girl and a boy?
- What is the probability that atleast one student selected is a girl?

### Activity :2

Tokens numbered from 1to 4 are placed in two boxes. What is the probability that the sum of these two numbers will be a

- prime number?
- a multiple of 3?

### Activity :3

If two dice (with numbers 1 to 6 marked on them) are rolled simultaneously then what is the probability that

- Sum of the numbers on the dice will be a multiple of 5?
- numbers on both the dice will be the same?


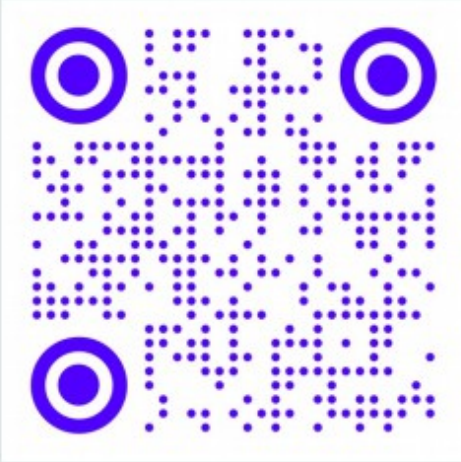


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- c) the sum of the numbers on the dice will not be 12?
- d) atleast one of the numbers will be an even number?

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Class: X

Subject:  
MATHEMATICS

Date: 08/10/2020

Worksheet No: 30

## LESSON: SECOND DEGREE EQUATIONS

LO: Framing and Solving Second Degree Equations.

### ACTIVITY .1

When each side of a square is increased by 2 metre , perimeter becomes 100 metre . What is the length of a side of the original square ?

### ACTIVITY .2

When each side of a square is reduced by 3 metres, area becomes 256 m<sup>2</sup>. Frame an equation using above data by taking the side of the larger square as x metre. Find the length of the sides of both squares ?

One side of the larger square = x

One side of the smaller square = .....

Area of the smaller square = ..... = 256

=.....

x=.....

Side of the larger square = .....

Side of the smaller square = .....



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## ACTIVITY 3.

A pavement of width 1 metre is built around a square shaped garden. The area of the garden including the path is  $961 \text{ m}^2$ . Find the side of the garden ?

Side of the garden =  $x$

Side of the garden including

pavement = .....

Total area =  $(x + \dots)^2$

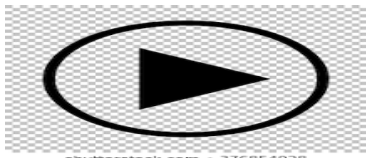

= ..... = .....

Side of the garden  $x$  = .....

## ACTIVITY 4.

A box is to be made by cutting off small squares from each corner of a square of thick paper, and bending upwards. The height of the box is to be 10cm and volume 1 litre. What should be the length of a side of the square sheet we start with ?

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Class: 10

Subject: Maths

Date: 9-10-20

WorksheetNo: 31

## ACTIVITY 1

5,7,9.... is an arithmetic sequence. The square of a term of this arithmetic sequence is 2025.

What is its position ?

First term = .....

$n^{\text{th}}$  term =  $an + b$ ,

Square of  $n^{\text{th}}$  term = 2025

$(\dots)^2 = 2025$

$\dots = \sqrt{2025}$

$\dots = 45$

$2n = \dots$

$n = \dots$

Square of ..... term is 2025

Common difference = .....

$a = \dots$  ,  $b = \dots$

## ACTIVITY 2

A man deposits 4000 rupees in a bank which gives interest compounded annually. After 2 years he got 4410 rupees totally. Find the rate of interest ( Amount after  $n$  years =  $p(1 + \frac{r}{100})^n$  )

Amount deposited = 4000

No of years = 2

The amount he received after 2 years = 4410

$4000(\dots + \dots)^2 = 4410$

$(\dots + \dots)^2 = \frac{4410}{4000}$

$\dots = \sqrt{\frac{441}{400}}$

$\frac{r}{100} = \dots$

$r = \dots$  . Rate of interest = .....

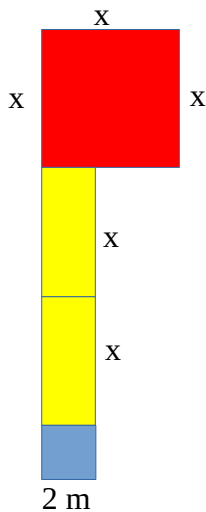


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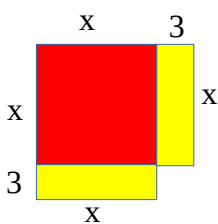
### ACTIVITY 3



The shape of a sign board is given. It is made up of a large square , 2 equal rectangles with width 2m and height equal to side of the large square and a small square of one side 2 m. The area of the whole figure is 144 m<sup>2</sup>. Find the length of one side of the red square.( Take one side of the red square as x metre)

- Area of the red square = .....
- Area of the 2 yellow rectangles = .....
- Area of the blue square = .....
- Area of the sign board = .... + .... + .....
- $(x + \dots)^2 = 144$
- $(x + \dots) = \dots$
- $x = \dots$
- One side of the red square = .....

### ACTIVITY 4



In the figure a red square with side x cm and two yellow rectangles with length x cm and width 3 cm are joined.

- ( i ) To complete this figure to a square which geometrical shape is to be added ?
- ( ii ) What is the area of the new shape that we are adding ?
- ( iii ) What is the length of one side of the completed square (large square) ?
- (iv) If area of the given figure is 720 sq. cm ,find one side of the red square

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CLASS :10

Subject : Mathematics

Date : 12-10-20

Worksheet No : 32

## Lesson : Second Degree Equations.

### Activity 1

The product of two consecutive odd numbers is 35. If first odd number is  $x$ , then

- next odd number = .....
- $x \times \dots = 35$
- $x^2 + \dots = 35$
- $x^2 + \dots + \dots = \dots$
- $(\dots + \dots)^2 = \dots$
- $x + \dots = \dots$
- $x = \dots$
- Thus the numbers = ....., .....

### Activity 2

Length of a rectangle is 4cm longer than its breadth. Area of the rectangle is  $140\text{cm}^2$ . Find the length and breadth.

### Activity 3

The difference of two positive numbers is 8, their product is 560. Find the numbers?





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## Activity 4

7, 11, 15, ..... is an arithmetic sequence. The product of its two consecutive terms is 621. Find the terms.

## Activity 5

Six times of a natural number when subtracted from its square gives 160. Find the numbers.

CLASS LINK



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