## ONLINE MATHS CLASS - X - 29 (31/08/2021)

## **3. MATHEMATICS OF CHANCE - CLASS - 2**

What did we study in the last class ?

The probability of something we have to find is how much part of the total number of

results to the number of results favourable to it .

Probability =  $\frac{Number of favourable results}{Number of total results}$ 

## Activity 1

There are 7 red and 5 blue balls in a bag, 9 red and 7 blue balls in another.

a) What is the probability of getting a red ball from the first bag?

b) What is the probability of getting a red ball from the second bag?

c) If all the balls are put in a single bag , what is the probability of getting a red ball from

it ?

Answer

a) Number of balls in the first bag $= 7 + 5 = 12$
<b>Probability of getting a red ball</b> = $\frac{Number of favourable results}{Number of total results} = \frac{7}{12}$
<b>b)</b> Number of balls in the second bag $= 9 + 7 = 16$
<b>Probability of getting a red ball</b> = $\frac{Number of favourable results}{Number of total results} = \frac{9}{16}$
c) Total balls in the bag = $12 + 16 = 28$
<b>Probability of getting a red bal</b> = $\frac{Number of favourable results}{Number of total results} = \frac{7 + 9}{28} = \frac{16}{28} = \frac{4}{7}$
<u>Activity 2</u>
Numbers 1 to 25 are written on slips of paper and put in a box . A slip is to be drawn
from it ,

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