29/9/2020
TUESDAY

Assignment

1) A box contains 6 blacks and 4 white balls. If a ball is taken from it, what is the probability of it being black? And the probability of it being white?

Ans)

Total no. of balls = 10

No. of black balls = 6

| 6 - Black |
| 4 - white |

10 Balls

∴ Probability of getting a black ball = $\frac{6}{10} = \frac{3}{5}$

No. of white balls = 4

∴ Probability of white = $\frac{4}{10} = \frac{2}{5}$

2) A bag contains 3 red beads and 7 green beads. Another contains one red and one green more. The probability of getting a red from which bag is more?

Ans)   Bag -1

Total Beads = 3 + 7 = 10

Red beads = 3

∴ Probability of getting a red bead = $\frac{3}{10}$

Bag -2

Total beads = 4 + 8 = 12

Red beads = 4

Probability of getting a red bead = $\frac{4}{12} = \frac{1}{3}$

∴ Greater of $\frac{3}{10}$ and $\frac{1}{3}$

= $\frac{1}{3}$

∴ The probability of getting a red bead from the second bag is more.