

Probability (A)

$$\text{Probability} = \frac{\text{Number of Desired Outcomes}}{\text{Total Number of Outcomes}}$$

A bag contains 10 red balls and 5 blue balls. One ball is chosen at random. Find the probability of choosing a red ball.

$$\begin{aligned}P(\text{Red}) &= \frac{10}{10+5} \\&= \frac{10}{15} \\&= \frac{2}{3}\end{aligned}$$

A fair coin is tossed. Find the probability of getting heads.

$$P(H) = \frac{1}{2}$$

A bag contains 16 red balls and 19 blue balls. One ball is chosen at random. Find the probability of choosing a blue ball.

$$\begin{aligned}P(\text{Blue}) &= \frac{19}{16+19} \\&= \frac{19}{35}\end{aligned}$$