

Advanced_Grade-9_Probability

Empirical Probability of Events

- In a one-day cricket Match, Sachin played 40 balls and hit 12 sixes and Saurav played 30 balls and hit 9 fours. Find the probability that Sachin will hit a six in the next ball and also find the probability that Saurav will not hit a four in the next ball.
- A coin is tossed for a certain number of limes. If the probability of getting a head is 0.4 and head appears for 24 times, find the number of times, the coin was tossed. Hence, find probability of getting a tail and verify that P(H) + P(T) = 1.
- 3. A school organised an adventure camp for students to Kanatal. The following table shows the participation of students in different types of adventure activities:

Type I → trekking

Type II →trekking and mountain climbing

Type III →trekking, mountain climbing

Type IV → trekking, repelling and rafting.

Type of activities	Number of students			
Type I	75			
Type II	62			
Type III	55			
Type IV	36			
All	22			

Find the probability that the student chosen at random participated in :

- Type III activities.
- (ii) All the activities.
- (iii) Type I activity.
- (iv) Type II and Type IV activities





4. The marks obtained by 30 students in a competitive exam are given below :

Marks	70	58	61	52	65	75	68
No. of Students	3	5	4	7	6	2	3

One student is chosen at random. Find the probability:

- (i) That the student scored more than 65 marks.
- (ii) That the marks scored by the students is an odd number.

