

Worksheet: Probability

Punjab State Board · Class 12 · Mathematics · 3 questions · 14 marks

Name: _____

Date: _____

Score: _____ / 14

Q1. A bag contains 5 red and 3 blue balls. Two balls are drawn one after another without replacement. Find the probability that both are red. *[3 marks]*

Q2. There are two bags. Bag I: 3 red, 4 black balls. Bag II: 5 red, 6 black balls. One bag is selected at random (equal probability) and one ball is drawn. The ball is red. Find the probability that it came from Bag I. *[5 marks]*

Q3. The probability that a student passes an exam is $\frac{2}{3}$. In a group of 5 students, find: (i) $P(\text{at least 2 pass})$, (ii) the mean and variance of the number of students who pass. *[6 marks]*
