

Probability Problems

Q1. A bag contains 3 red balls and 2 yellow balls. A ball is chosen at random and is replaced. A second ball is then taken at random. Find the probability that one ball of each colour is chosen.

Q2. A box contains 4 blue counters and 6 red counters. A counter is drawn at random and then replaced. A second counter is drawn. Find the probability that a counter of each colour is drawn.

Q3. A die is rolled twice and the score noted. What is the probability that the second score is twice the first score ?

Q4.

3 4 5 6

Sam takes a card at random and replaces it. He then picks a second card at random. What is the probability that his first number is higher than his second ?

Q5. A die is rolled twice and the score noted. What is the probability that the second score is twice the first score ?

Q6. Mike takes two tests. The probability that Mike passes test A is 0.4. If he passes test A then the probability that he also passes test B is 0.25. If he does not pass A then the probability that he does not pass test B is 0.6. What is the probability that he passes at least one of the tests?

