

Worksheet: Probability

ICSE · Class 12 · Mathematics · 5 questions · 16 marks

Name: _____	Date: _____	Score: _____ / 16
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Q1. A pair of dice is thrown. Find the probability the sum is 7 given the first die shows 3. *[2 marks]*

Q2. A coin is tossed 5 times. Find the probability of at least 3 heads. *[3 marks]*

Q3. X takes values 0,1,2,3 with probabilities 0.1, 0.3, 0.4, k. Find k, E(X), and Var(X). *[4 marks]*

Q4. A bag has 5 white and 3 black balls. Two are drawn. Find the probability they are different colours. *[3 marks]*

Q5. An examinee guesses, copies, or knows an answer with probabilities 0.1, 0.2, 0.7; correct with probability 0.2, 0.8, 1 respectively. Find $P(\text{knew} \mid \text{correct})$. *[4 marks]*
