



Class 10 Mathematics | Probability

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. A fair die is rolled. Probability of a prime number is:

A. $\frac{1}{3}$ B. $\frac{1}{6}$ C. $\frac{2}{3}$ D. $\frac{1}{2}$

2. A fair coin is tossed three times. P(all heads) is:

A. $\frac{1}{2}$ B. $\frac{1}{3}$ C. $\frac{1}{8}$ D. $\frac{3}{8}$

3. Two fair dice are rolled. P(sum 7) is:

A. $\frac{1}{3}$ B. $\frac{1}{12}$ C. $\frac{7}{36}$ D. $\frac{1}{6}$

4. A card is drawn from a standard 52-card deck. P(a king) is:

A. $\frac{1}{13}$ B. $\frac{4}{13}$ C. $\frac{1}{4}$ D. $\frac{1}{52}$

5. A bag has 4 red, 3 blue and 5 green balls. P(not green) is:

A. $\frac{7}{12}$ B. $\frac{1}{4}$ C. $\frac{1}{3}$ D. $\frac{5}{12}$

6. If $P(E)=0.72$, P(not E) is:

A. 0.28 B. 1.72 C. 0.38 D. 0.72

7. An integer is chosen uniformly from 1 to 20. P(a multiple of 4) is:

A. $\frac{1}{5}$ B. $\frac{3}{10}$ C. $\frac{1}{2}$ D. $\frac{1}{4}$

8. A letter is selected uniformly from SCIENCE. P(E) is:

A. $\frac{2}{7}$ B. $\frac{3}{7}$ C. $\frac{1}{7}$ D. $\frac{2}{5}$

9. Two fair dice are rolled. P(a double) is:

A. $\frac{1}{3}$ B. $\frac{1}{36}$ C. $\frac{1}{6}$ D. $\frac{1}{2}$

10. Two fair dice are rolled. P(sum 2) is:

A. $\frac{1}{36}$ B. $\frac{1}{18}$ C. $\frac{1}{6}$ D. $\frac{1}{12}$

11. A card is drawn from a standard deck. P(a red face card) is:

A. $\frac{1}{2}$ B. $\frac{1}{13}$ C. $\frac{3}{13}$ D. $\frac{3}{26}$

12. A box has 20 bulbs, of which 3 are defective. P(a good bulb) is:

A. $\frac{1}{5}$ B. $\frac{3}{20}$ C. $\frac{7}{20}$ D. $\frac{17}{20}$

13. An event has probability 1. It is:

A. necessarily rare B. impossible
C. certain D. equally likely to fail

14. A random integer from 1 to 30 is chosen. P(a perfect square) is:

A. $\frac{1}{6}$ B. $\frac{2}{15}$ C. $\frac{1}{3}$ D. $\frac{1}{5}$

15. A bag contains 5 white and x black balls. If $P(\text{white})=\frac{1}{3}$, x is:

A. 5 B. 15 C. 20 D. 10

ANSWER KEY — check after completing all 15 questions

1.D 2.C 3.D 4.A 5.A 6.A 7.D 8.A 9.C 10.A 11.D 12.D 13.C 14.A 15.D

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper