



Class 11 Mathematics | Probability

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

1. A fair die is rolled. Probability of an even number is:

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

2. Two fair coins are tossed. Probability of exactly one head is:

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

3. The probability of an impossible event is:

A. 0 B. -1 C. 1 D. $\frac{1}{2}$

4. If $P(A)=0.35$, then $P(A')$ is:

A. 1.35 B. 0.35 C. -0.35 D. 0.65

5. One card is drawn from a standard 52-card deck. Probability of an ace?

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

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

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

7. Two fair dice are rolled. Probability of sum 7 is:

A. $\frac{7}{36}$ B. $\frac{5}{36}$ C. $\frac{1}{6}$ D. $\frac{1}{12}$

8. If A,B are mutually exclusive with probabilities 0.2 and 0.3, $P(A \cup B)$ is:

A. 0.06 B. 0.5 C. 0.1 D. 0.8

9. If $P(A)=0.6$, $P(B)=0.5$ and $P(A \cap B)=0.2$, $P(A \cup B)$ is:

A. 0.7 B. 1.1 C. 0.3 D. 0.9

10. A bag has 3 red and 5 blue balls. Probability of drawing red is:

A. $\frac{3}{8}$ B. $\frac{5}{8}$ C. $\frac{3}{5}$ D. $\frac{1}{3}$

11. Three fair coins are tossed. Probability of no heads is:

A. $\frac{3}{8}$ B. $\frac{1}{4}$ C. $\frac{7}{8}$ D. $\frac{1}{8}$

12. For every event A, its probability lies in:

A. $[-1,1]$ B. $[1,\infty)$ C. $(0,1)$ D. $[0,1]$

13. From integers 1 to 10, one is chosen uniformly. Probability it is divisible by 3?

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

14. Two fair dice are rolled. Probability of a double is:

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

15. If $P(A \cup B)=0.8$, $P(A)=0.5$ and $P(B)=0.4$, $P(A \cap B)$ is:

A. 0.2 B. 0.1 C. 0.9 D. 0.3

ANSWER KEY — check after completing all 15 questions

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

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

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