QUIZ-01



CHAPTER-14 | Probability

1.	What is the theoretical probability of getting a
	head when a coin is tossed once?

A. 1

B. 0

C. 1/2

- D. 2
- (C)

Explanation: There are 2 equally likely outcomes: head and tail. Only 1 is favorable (head). So, P = 1/2.

- 2. How many outcomes are possible when a die is thrown once?
 - A. 4

B. 5

C. 6

- D. 8
- (C)

Explanation: A standard die has 6 faces numbered 1 to 6, giving 6 possible outcomes.

- 3. What is the probability of getting a number greater than 4 when a die is thrown once?
 - A. 1/3

B. 1/6

C. 1/2

- D. 2/3
- (A)

Explanation: Favorable outcomes: 5 and 6. Total outcomes: 6. So, P = 2/6 = 1/3.

- 4. What is the probability of an impossible event?
 - A. 0

B. 1

- C. 0.5
- D. Cannot be determined

(A)

(C)

Explanation: An impossible event has no favorable outcomes. So, its probability is 0.

- 5. If P(E) = 0.05, what is the value of P(not E)?
 - A. 0.05

B. 0.5

C. 0.95

D. 1.05

Explanation: P(not E) = 1 - P(E) = 1 - 0.05 = 0.95.

- 6. Which of the following is a sure event when a die is thrown?
 - A. Getting a 7
 - B. Getting a number < 7
 - C. Getting a negative number
 - D. Getting an even prime

(B)

Explanation: All faces of a die are numbered 1 to 6. So, getting a number < 7 is certain.

- 7. What is the probability of getting a red ball from a bag with 4 red and 1 blue ball?
 - A. 1/5

B. 4/5

C. 2/5

- D. 3/5
- (B)

Explanation: Total outcomes = 5; favorable for red = 4. So, P = 4/5.

- 8. In a deck of 52 cards, how many are face cards?
 - A. 16

B. 12

C. 13

- D. 10
- (B)

Exlanation: There are 3 face cards (King, Queen, Jack) in each suit. So, total = 3 × 4 = 12.

- 9. If the probability of Sangeeta winning a match is 0.62, what is the probability of Reshma winning?
 - A. 0.38

B. 0.62

C. 0.5

- D. 1
- (A)

Explanation: P(Reshma) = 1 - P(Sangeeta) = 1 - 0.62 = 0.38.

- 10. What is the sum of probabilities of all elementary events in an experiment?
 - A. 1

- B. 0
- C. Depends on outcomes
- D. Cannot be determined
- (A)

Explanation: The sum of all elementary event probabilities is always 1.