

# PROBABILITY QUIZ

1. Which of the following is an experiment?

- a) Tossing a coin.
- b) Rolling a single 6-sided die.
- c) Choosing a marble from a jar.
- d) All of the above.

2. Which of the following is an outcome?

- a) Throwing a pair of dice.
- b) Landing on red.
- c) Choosing 2 marbles from a jar.
- d) None of the above.

3. Which of the following experiments does NOT have equally likely outcomes?

- a) Choosing a number at random from 1 to 7.
- b) Flipping a coin.
- c) Choosing a letter at random from the word SCHOOL.
- d) None of the above.

4. What is the sample space for choosing a prime number less than 15 at random?

- a) {2; 3; 5; 7; 11; 13; 15}
- b) {2; 3; 5; 7; 11; 13}
- c) {2; 3; 5; 7; 9; 11; 13}
- d) All of them.

5. What is the sample space for choosing one letter at random from the word DIVIDE?

- a) {d; i; v; i; d; e}
- b) {1; 2; 3; 4; 5; 6}
- c) {d; i; v; e}
- d) None of them.

6. A spinner has 7 equal sectors numbered 1 to 7. If you spin the spinner, then which of the following is certain?

- a) Landing on a number less than 7.
- b) Landing on a number less than 8.
- c) Landing on a number greater than 1.
- d) None of the above.

7. What is the probability of choosing 14 hearts (without replacement) from a standard deck of 52 playing cards?

- a) 1452
- b) 1
- c) 0
- d) None of them.

8. If a single 6-sided die is rolled, then which of the following events is neither certain nor impossible?

- a) Rolling a number less than 7.
- b) Rolling an even number.
- c) Rolling a zero.
- d) None of the above.

9. We draw one card from a deck of 32 cards. Let A, B, C and D, be the following events:

A: Draw an ace;    B: Draw a heart;    C: Draw the ace of hearts;    D: Draw a spade.

- Which of these two events are mutually exclusive?

- a) A and B.
- b) A and C.
- c) A and D.
- d) B and D.

- Which of the following event is the complement of C?

- a) Don't draw a heart.
- b) Draw either an ace or a heart.
- c) Don't draw an ace.
- d) Neither of them.