



Class 9 Mathematics | The Mathematics Of Maybe: Introduction To Probability

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

1. The probability of an impossible event is:

A. 0 B. -1 C. $1/2$ D. 1

2. Which value cannot represent a probability?

A. 0.8 B. 1 C. 1.2 D. 0

3. A fair die is rolled. P(number greater than 4) is:

A. $1/2$ B. $1/6$ C. $2/3$ D. $1/3$

4. A fair coin is tossed twice. P(exactly one head) is:

A. 1 B. $3/4$ C. $1/4$ D. $1/2$

5. A bag has 3 red and 5 blue balls. P(red) is:

A. $5/8$ B. $3/8$ C. $3/5$ D. $1/3$

6. If $P(E)=0.35$, then $P(\text{not } E)$ is:

A. 1.35 B. 0.75 C. 0.35 D. 0.65

7. In 80 trials, a spinner lands on green 28 times. Empirical P(green) is:

A. $2/7$ B. $7/10$ C. $13/20$ D. $7/20$

8. A fair die is rolled. Which event is certain?

- A. Number is 6
- B. Number is even
- C. Number is prime
- D. Number is less than 7

9. A letter is chosen uniformly from the letters of MATHS. P(vowel) is:

A. $3/5$ B. $1/5$ C. $2/5$ D. $1/2$

10. An integer is selected uniformly from 1 to 10. P(multiple of 3) is:

A. $3/10$ B. $1/5$ C. $2/5$ D. $1/3$

11. One coin and one die are used. Number of equally likely combined outcomes is:

A. 2 B. 6 C. 8 D. 12

12. Two fair coins are tossed. P(at least one head) is:

A. $3/4$ B. $1/4$ C. $1/2$ D. 1

13. A bag contains only 6 black balls. P(drawing a white ball) is:

A. 0 B. 1 C. $5/6$ D. $1/6$

14. A die shows 6 in 19 of 120 trials. Which is its empirical probability of 6?

A. $101/120$ B. $19/120$ C. $6/19$ D. $1/6$

15. A spinner has 8 equal sectors, 3 yellow and 5 blue. P(not yellow) is:

A. $3/5$ B. $5/8$ C. $3/8$ D. $1/8$

ANSWER KEY — check after completing all 15 questions

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

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

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