

Test Paper

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Subject: Math

Topic: Probability

Number of Questions: 10

Optional Details: MCQ

Questions:

1. What is the probability of rolling a 6 on a standard six-sided die?

a) $1/2$

b) $1/3$

c) $1/4$

d) $1/6$

2. A bag contains 10 balls, 5 red and 5 blue. If two balls are drawn randomly without replacement, what is the probability of drawing two red balls?

a) $1/4$

b) $1/5$

c) $1/10$

d) $1/20$

3. A fair coin is flipped three times. What is the probability of getting two heads and one tail?

a) $1/2$

b) $1/4$

c) $1/8$

d) $1/16$

4. A deck of 52 cards is shuffled and one card is drawn. What is the probability of drawing a heart?

- a) $\frac{1}{4}$
- b) $\frac{1}{13}$
- c) $\frac{1}{26}$
- d) $\frac{1}{52}$

5. What is the probability of rolling an even number on a standard six-sided die?

- a) $\frac{1}{2}$
- b) $\frac{1}{3}$
- c) $\frac{1}{4}$
- d) $\frac{1}{6}$

6. A box contains 12 balls, numbered 1 to 12. Two balls are drawn randomly with replacement. What is the probability of drawing two balls with the same number?

- a) $\frac{1}{11}$
- b) $\frac{1}{12}$
- c) $\frac{1}{13}$
- d) $\frac{1}{144}$

7. A bag contains 10 coins, 5 of which are biased towards heads. If a coin is drawn randomly, what is the probability of drawing a biased coin?

- a) $\frac{1}{2}$
- b) $\frac{1}{4}$
- c) $\frac{1}{5}$
- d) $\frac{1}{10}$

8. What is the probability of rolling a sum of 7 on two standard six-sided dice?

- a) $\frac{1}{6}$
- b) $\frac{1}{12}$

c) $\frac{1}{18}$

d) $\frac{1}{36}$

9. A survey of 100 people found that 60 prefer coffee to tea. What is the probability that a randomly selected person prefers coffee?

a) 0.6

b) 0.4

c) 0.5

d) 0.25

10. A lottery has 100 tickets, numbered 1 to 100. If one ticket is drawn randomly, what is the probability of drawing a ticket with a number greater than 50?

a) $\frac{1}{2}$

b) $\frac{1}{4}$

c) $\frac{1}{5}$

d) $\frac{1}{100}$