
PROBABILITY

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CONCEPT

I. A card is drawn from a well-shuffled pack of cards. What is the probability of getting a spade?

Ans: _____

2. A card is drawn from a well-shuffled pack of cards. What is the probability of getting a spade or a diamond?

Ans: _____

3. Two cards are drawn from a well-shuffled pack of cards. What is the probability that the first is a spade and the second is a diamond?

Ans: _____

4. Two cards are drawn from a well-shuffled pack of cards. What is the probability of getting a spade and a diamond?

Ans: _____

5. Two bottles are randomly selected from a stack of 10 bottles in which 5 are blue, 3 are green, and 2 are yellow. What is the probability that the 1st bottle selected is blue and the 2nd is green?

Ans: _____

6. Three bottles are randomly selected from a stack of 12 bottles in which 3 are black, 4 are white, and 5 are red. What is the probability that all 3 bottles selected are of different colour?

Ans: _____

7. Two dice are rolled. What is the probability that the sum of the results is 5?

Ans: _____

8. Two dice are rolled. What is the probability that the sum of the results is less than or equal to 5?

Ans: _____

9. A fair coin is tossed 6 times. What is the probability that heads turns up exactly 2 times?

Ans: _____

10. A bag contains three differently coloured bottles, which include 3 black, 4 white, and 5 red. If 3 bottles are picked randomly from the bag, what is the probability that:

i. All the three are black? Ans: _____

ii. None of them are white? Ans: _____

iii. All of them are not white? Ans: _____

11. A committee of 10 people needs to be seated on 10 chairs in a straight line. What is the probability that 3 particular people always sit together?

Ans: _____

12. The probability of getting heads in both trials when a balanced coin is tossed twice will be?

A. $1/4$

B. $1/2$

C. 1

D. $3/4$

13. A card is drawn from a well-shuffled pack of cards. The probability of getting a queen of club or king of the heart is?

A. $1/52$

B. $1/26$

C. $1/13$

D. None of these

14. If the probability that A will live 15 years is $\frac{7}{8}$ and that B will live 15 years is $\frac{9}{10}$, then what is the probability that both will live 15 years?

A. $\frac{1}{20}$

B. $\frac{63}{80}$

C. $\frac{1}{5}$

D. None of these

15. The probability of drawing a red card from a deck of playing cards is

A. $2/18$

B. $1/13$

C. $1/4$

D. $1/2$

16. Two dice are rolled. What is the probability that the sum of the numbers appeared on them is 8 or 11?

A. $1/6$

B. $1/18$

C. $1/9$

D. $7/36$

17. A bag contains 8 red and 5 white balls. 2 balls are drawn at random. What is the probability that both are white?

A. $5/16$

B. $2/13$

C. $3/26$

D. $5/39$

18. Three unbiased coins are tossed. What is the probability of getting at most 2 heads?

A. $1/4$

B. $3/8$

C. $7/8$

D. $1/2$

19. A brother and sister appear for an interview against two vacant posts in an office. The probability of the brother's selection is $\frac{1}{5}$ and that of the sister's selection is $\frac{1}{3}$. What is the probability that only one of them is selected?

A. $\frac{1}{5}$

B. $\frac{2}{5}$

C. $\frac{1}{3}$

D. $\frac{2}{3}$

20. The probability that a card drawn from a pack of 52 cards will be a diamond or a king is?

A. $1/13$

B. $4/13$

C. $1/52$

D. $2/13$