

PROBABILITY

1. Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?

- (a) $\frac{1}{2}$ (b) $\frac{3}{4}$ (c) $\frac{3}{8}$ (d) $\frac{5}{16}$ (e) None of these

2. In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected, is:

- (a) $\frac{21}{46}$ (b) $\frac{25}{117}$ (c) $\frac{1}{50}$ (d) $\frac{3}{25}$ (e) None of these

3. In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?

- (a) $\frac{1}{10}$ (b) $\frac{2}{5}$ (c) $\frac{2}{7}$ (d) $\frac{5}{7}$ (e) None of these

4. From a pack of 52 cards, two cards are drawn together at random. What is the probability of both the cards being kings?

- (a) $\frac{1}{15}$ (b) $\frac{25}{57}$ (c) $\frac{35}{256}$ (d) $\frac{1}{221}$ (e) None of these

5. Two dice are tossed. The probability that the total score is a prime number is:

- (a) $\frac{1}{6}$ (b) $\frac{5}{12}$ (c) $\frac{1}{2}$ (d) $\frac{7}{9}$ (e) None of these

6. A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a king of heart is:

- (a) $\frac{1}{13}$ (b) $\frac{2}{13}$ (c) $\frac{1}{26}$ (d) $\frac{1}{52}$ (e) None of these

7. Two cards are drawn together from a pack of 52 cards. The probability that one is a spade and one is a heart, is:

- (a) $\frac{3}{20}$ (b) $\frac{29}{34}$ (c) $\frac{47}{100}$ (d) $\frac{13}{102}$ (e) None of these

8. From a pack of 52 cards, one card is drawn at random. What is the probability that the card drawn is a ten or a spade?

- (a) $\frac{4}{13}$ (b) $\frac{1}{4}$ (c) $\frac{1}{13}$ (d) $\frac{1}{52}$ (e) None of these

9. A basket contains 6 red, 5 green and 8 balls. If four balls are picked at random, what is the probability that all four of them are either red or any two out of the four are green?

- (a) $\frac{5}{1292}$ (b) $\frac{925}{3876}$ (c) $\frac{359}{1938}$ (d) $\frac{11}{3876}$ (e) None of these

10. A basket contains three blue and four red balls, if three balls are drawn at random from the basket, what is the probability that all the three are either blue or red?

- (a) 1 (b) $\frac{1}{7}$ (c) $\frac{3}{14}$ (d) $\frac{3}{28}$ (e) none of these

11. A bag contains 13 white and 7 black balls. Two balls are drawn at random. What is the probability that they are of the same colour?

- (a) $\frac{41}{190}$ (b) $\frac{21}{190}$ (c) $\frac{59}{190}$ (d) $\frac{99}{190}$ (e) None of these

12. From a well-shuffled pack of 52 playing cards, one card is drawn at random. What is the probability that the card drawn will be a black king?

- (a) $\frac{1}{26}$ (b) $\frac{7}{13}$ (c) $\frac{3}{13}$ (d) $\frac{9}{13}$ (e) $\frac{1}{13}$

13. In a container there are 28 eggs out of which 8 eggs are rotten. If two eggs are chosen at random, what will be the probability that at least one egg is rotten?

- (a) $\frac{94}{189}$ (b) $\frac{95}{187}$ (c) $\frac{93}{189}$ (d) $\frac{97}{189}$ (e) None of these

14. A box contains 4 black balls, 3 red balls and 5 green balls. 2 balls are drawn from the box at random. What is the probability that both the balls are of the same color?

- (a) $\frac{47}{68}$ (b) $\frac{1}{6}$ (c) $\frac{19}{66}$ (d) $\frac{2}{11}$ (e) none of these

15. A bag contains 2 red, 3 green and 2 blue balls. 2 balls are to be drawn randomly. What is the probability that the balls drawn contain no blue ball?

- (a) $\frac{5}{7}$ (b) $\frac{10}{21}$ (c) $\frac{2}{7}$ (d) $\frac{11}{21}$ (e) None of these

16. An urn contains 3 red and 4 green marbles. If three marbles are picked at random, what is the probability that two are green and one is red?

- (a) $\frac{3}{7}$ (b) $\frac{18}{35}$ (c) $\frac{5}{14}$ (d) $\frac{4}{21}$ (e) None of these

17. A bag contains 2 red, 3 green and 2 blue balls, 2 balls are to be drawn randomly. What is the probability that the balls drawn contain no blue ball?

- (a) $\frac{5}{7}$ (b) $\frac{10}{21}$ (c) $\frac{2}{7}$ (d) $\frac{11}{21}$ (e) None of these

18. An urn contains 9 red, 7 white and 4 black balls. If two balls are drawn at random, find the probability that both the balls are red.

- (a) $\frac{17}{95}$ (b) $\frac{18}{95}$ (c) $\frac{1}{12}$ (d) $\frac{91}{190}$ (e) None of these

19. Out of 5 girls and 3 boys, 4 children are to be randomly selected for a quiz contest. What is the probability that all are girls?

- (a) $\frac{1}{14}$ (b) $\frac{1}{7}$ (c) $\frac{5}{17}$ (d) $\frac{2}{17}$ (e) None of these