

15. Probability

Question 1.

A card is selected at random from a deck of 52 cards. The probability of its being a red face card is

- (a) $\frac{3}{13}$
- (b) $\frac{1}{2}$
- (c) $\frac{2}{13}$
- (d) $\frac{3}{26}$

Answer: (d) $\frac{3}{26}$

Question 2.

An unbiased dice is thrown. What is the probability of getting an even number or a multiple of 3?

- (a) $\frac{3}{2}$
- (b) $\frac{2}{3}$
- (c) $\frac{5}{4}$
- (d) $\frac{4}{3}$

Answer: (a) $\frac{3}{2}$

Question 3.

What is the probability that a leap year has 53 Sundays?

- (a) $\frac{7}{8}$
- (b) $\frac{4}{5}$
- (c) $\frac{2}{3}$
- (d) $\frac{2}{7}$

Answer: (d) $\frac{2}{7}$

Question 4.

Probability of boy that he will get married with his girlfriend is $\frac{2}{7}$ then probability that he will not get married will be:

- (a) $\frac{5}{7}$

- (b) $\frac{7}{2}$
- (c) $\frac{2}{7}$
- (d) $\frac{7}{10}$

Answer: (a) $\frac{5}{7}$

Question 5.

In a football match, a player hits 8 goals out of 60 balls. Find the probability that the player did not hit the goal.

- (a) $\frac{11}{15}$
- (b) $\frac{4}{5}$
- (c) $\frac{8}{15}$
- (d) $\frac{13}{15}$

Answer: (d) $\frac{13}{15}$

Question 6.

The probability of an event of a trial is always

- (a) more than 1
- (b) between 0 and 1 (both inclusive)
- (c) 1
- (d) 0

Answer: (b) between 0 and 1 (both inclusive)

Question 7.

A standard deck of 52 cards is shuffled. One card is drawn at random. The probability that the card is red or an ace is

- (a) $\frac{7}{13}$
- (b) $\frac{5}{15}$
- (c) $\frac{13}{17}$
- (d) $\frac{2}{13}$

Answer: (a) $\frac{7}{13}$

Question 8.

Gugu throws a die once. The probability that she shows a number less than 5 is :

- (a) $\frac{2}{3}$

- (b) $\frac{1}{3}$
- (c) $\frac{1}{6}$
- (d) $\frac{5}{3}$

Answer: (a) $\frac{2}{3}$

Question 9.

The maximum probability of an event of a trial is:

- (a) 0
- (b) 1
- (c) Lies between 0 and 1.
- (d) -1

Answer: (b) 1

Question 10.

A and B throw a pair of dice. If A throws 9, then B's chance of throwing a higher number is

- (a) $\frac{1}{6}$
- (b) $\frac{1}{9}$
- (c) $\frac{1}{3}$
- (d) $\frac{2}{9}$

Answer: (a) $\frac{1}{6}$

Question 11.

The probability of an impossible event is

- (a) more than 1
- (b) less than 1
- (c) 1
- (d) 0

Answer: (d) 0

Question 12.

Three unbiased coins are tossed together. The probability of getting at least two heads is

- (a) $\frac{3}{8}$
- (b) $\frac{1}{2}$
- (c) $\frac{1}{8}$
- (d) 1

Answer: (b) $\frac{1}{2}$

Question 13.

The probability of getting 53 Sundays in a leap year is

- (a) $\frac{2}{7}$
- (b) $\frac{3}{7}$
- (c) $\frac{7}{3}$
- (d) $\frac{1}{7}$

Answer: (a) $\frac{2}{7}$

Question 14.

In a simultaneous throw of a pair of dice, the probability of getting a sum more than 7 will be

- (a) $\frac{5}{12}$
- (b) $\frac{13}{12}$
- (c) $\frac{7}{12}$
- (d) $\frac{9}{12}$

Answer: (a) $\frac{5}{12}$

Question 15.

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

- (a) $\frac{7}{8}$
- (b) $\frac{3}{4}$
- (c) $\frac{5}{6}$
- (d) $\frac{3}{2}$

Answer: (a) $\frac{7}{8}$

Question 16.

Which one of the following cannot be the probability of an event?

- (a) $\frac{2}{3}$
- (b) $\frac{-1}{6}$
- (c) 0
- (d) 1

Answer: (b) $\frac{-1}{6}$

Question 17.

Two unbiased coins are tossed. What is probability of getting at most one tail?

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

Answer: (d) $\frac{3}{4}$

Question 18.

Two unbiased coins are tossed simultaneously. The probability of getting at most one head is

- (a) $\frac{5}{4}$
- (b) $\frac{1}{4}$
- (c) $\frac{3}{4}$
- (d) $\frac{2}{3}$

Answer: (c) $\frac{3}{4}$

Question 19.

A die is thrown 300 times and odd numbers are obtained 153 times. Then, the probability of getting an even number is

- (a) $\frac{174}{300}$
- (b) $\frac{147}{300}$
- (c) $\frac{147}{153}$
- (d) $\frac{153}{300}$

Answer: (b) $\frac{147}{300}$

Question 20.

The sum of the probabilities of All events of a trial is

- (a) 1
- (b) between 0 and 1
- (c) less than 1
- (d) greater than 1

Answer: (b) between 0 and 1

Question 21.

One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is either a red card or a king?

- (a) $\frac{6}{13}$
- (b) $\frac{1}{2}$
- (c) $\frac{7}{13}$
- (d) $\frac{27}{52}$

Answer: (c) $\frac{7}{13}$

Question 22.

In a series of 6 cricket matches, the number of runs scored by the captain of a team are 54, 32, 48, 55, 29, 35. So in the next match, the probability that he will cross the half century is

- (a) 0.33
- (b) 0.24
- (c) 0.35
- (d) 0.48

Answer: (a) 0.33