



IITJEE Foundation Practice paper

PROBABILITY

class-8-Mathematics Number of Questions: 40

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1

Can the experimental probability of an event be a negative ?

- Yes No Can't be determined None of the above

2

Can the experimental probability of an event be greater than 1 ?

- Yes No Can't be determined None

3

For an event E, the correct inequality is

- $0 \leq P(E) \leq 1$ $0 \leq P(E) < 1$ $0 < P(E) \leq 1$ $0 \geq P(E) \geq 1$

4

In a pack of playing cards, the number of suits are

- 4 13 26 52

5

In a pack of playing cards number of red colour cards

- 4 26 13 None of these

6

In a pack of playing cards the number of face cards are

- 4 8 12 16

7

If $P(E') = \frac{1}{6}$, then $P(E)$ is given by

- $\frac{7}{6}$ $\frac{5}{6}$ $\frac{2}{6}$ $\frac{1}{6}$

8

If $P(E') = \frac{2}{9}$, then $P(E)$ is given by

- $\frac{2}{9}$ $\frac{5}{9}$ $\frac{7}{9}$ $\frac{8}{9}$

9

If $P(E') = \frac{1}{9}$, then $P(E)$ is given by

- $\frac{5}{9}$ $\frac{8}{9}$ $\frac{7}{9}$ 1

10

Which of the following can't be the probability of an event.

- 0.125 0.31 $\frac{5}{9}$ $\sqrt{5}$

11

When a coin is tossed once find the probability of getting a head.

- 0.275 0.55 $\frac{1}{2}$ $\frac{1}{4}$

12

When a coin is tossed once find the probability of getting a tail.

- 0.25 0.50 0.75 1

13

A coin is tossed 100 times with the following frequencies :

Head = 45 ; Tail = 55

Then the probability of getting head is

- 4.5 45 0.45 0.55

14

A coin is tossed 100 times with the following frequencies :

Head = 45 ; Tail = 55

Then the probability of getting tail is

- 0.45 0.55 55 45

15

When a die is thrown once then , find the probability of getting a number between 3 and 6.

- $\frac{4}{6}$ $\frac{2}{6}$ $\frac{3}{6}$ $\frac{5}{6}$

16

When a die is thrown once find the probability of getting an even prime number.

- $\frac{2}{6}$ $\frac{1}{6}$ $\frac{5}{6}$ $\frac{4}{6}$

17

When a die is thrown once find the probability of getting an even number.

- 0.45 0.55 0.65 0.50

18

When a die is thrown once find the probability of getting an odd number.

- 0.45 0.55 0.50 0.65

19

When a die is thrown once find the probability of getting a number greater than 4.

- $\frac{1}{3}$ $\frac{2}{3}$ $\frac{3}{3}$ 0

20

If the probability of winning a game is 0.3, then find the probability of losing the game.

- 0.70 0.75 0.30 0.60

21

If the probability of winning a game is $\frac{1}{7}$, then find the probability of losing the game.

- $\frac{1}{7}$ $\frac{2}{7}$ $\frac{6}{7}$ $\frac{3}{7}$

22

A bag contain 3 red balls and 7 blue balls . If a ball is drawn randomly from the bag then find the probability that the drawn ball is blue in color.

- 0.60 0.30 0.70 0.80

23

A fair coin is tossed 1000 times with the following frequencies
Head : 507 , Tail : 493

Find the probability of getting head when the coin is tossed.

- 0.500 0.507 0.504 0.497

24

A fair coin is tossed 1000 times with the following frequencies
Head : 507 , Tail : 493

Find the probability of getting tail when the coin is tossed.

- 0.497 0.507 0.493 0.4

25

Cards numbered from 1 to 100 are placed in a box and mixed thoroughly and One card is drawn from this box . Find the probability that the number on the card drawn is a number less than 14.

- 0.11 0.12 0.13 0.14

26

In a survey of 364 children aged 19 – 36 months, it was found that 91 liked to eat potato chips. If a child is selected at random, then the probability that she/he like to eat potato chips ?

- $\frac{91}{384}$ $\frac{273}{364}$ $\frac{91}{364}$ 0.65

27

A die is rolled 250 times and the frequencies of the outcomes 1 , 2 , 3 , 4 , 5 and 6 are recorded below :

- 1 → 65,
2 → 40,
3 → 42,
4 → 25,
5 → 33,
6 → 45.

When a die is thrown at random , then find the probability of getting 2.

- 0.15 0.16 0.17 0.18

28

What is the probability of getting a "non-king" card from a deck of 52 playing cards ?

- $\frac{1}{13}$ $\frac{12}{13}$ $\frac{11}{13}$ $\frac{3}{13}$

29

If a card is drawn from a well-shuffled deck of 52 playing cards, then the probability of getting a black ace is

- $\frac{1}{26}$ $\frac{1}{13}$ $\frac{3}{26}$ $\frac{1}{52}$

30

If two coins are tossed simultaneously, then all the possible outcomes are

- HH, TT HH, TH, TT HT, TH HH, HT, TH, TT

31

If five coins are tossed at a time, then the total number of outcomes is equal to

- 5 10 32 50

32

If three coins are tossed at a time, then the probability that head will appear on all the coins is

- $\frac{1}{2}$ $\frac{1}{8}$ $\frac{3}{8}$ $\frac{7}{8}$

33

The difference between the possible number of outcomes when 10 coins are tossed simultaneously and when 7 coins are tossed simultaneously is

- 768 442 772 896

34

Out of the numbers 1, 2, 3, 4, 5, 6, 7 and 8, the probability of getting a non - prime number is

- $\frac{1}{2}$ $\frac{5}{8}$ $\frac{7}{8}$ 0

35

If there are 10 bananas and 5 mangoes in the basket, then the probability of drawing a mango is

- $\frac{1}{5}$ $\frac{1}{3}$ $\frac{1}{10}$ $\frac{1}{15}$

36

Out of 1, 2, 3, 4, 5, 6, 7, 8 and 9, the probability of getting an even number is

- $\frac{1}{9}$ $\frac{2}{9}$ $\frac{3}{9}$ $\frac{4}{9}$

37

A ball is drawn at random from the box containing 7 red balls, 8 white balls, 6 green balls. The probability that the ball drawn is not green is

- $\frac{6}{21}$ $\frac{3}{7}$ $\frac{13}{21}$ $\frac{5}{7}$

38

Out of 1, 2, 3, 4, 20 numbers, one number is chosen at random. The probability that it will be divisible by 5 is

- $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$

39

From a pack of cards, one card is drawn at random. The probability of getting a queen card is

- $\frac{1}{13}$ $\frac{1}{26}$ $\frac{1}{52}$ $\frac{3}{13}$

40

What is the probability of getting a "non-face" card from a deck of 52 playing cards ?

- $\frac{10}{13}$ $\frac{11}{13}$ $\frac{12}{13}$ $\frac{9}{13}$

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