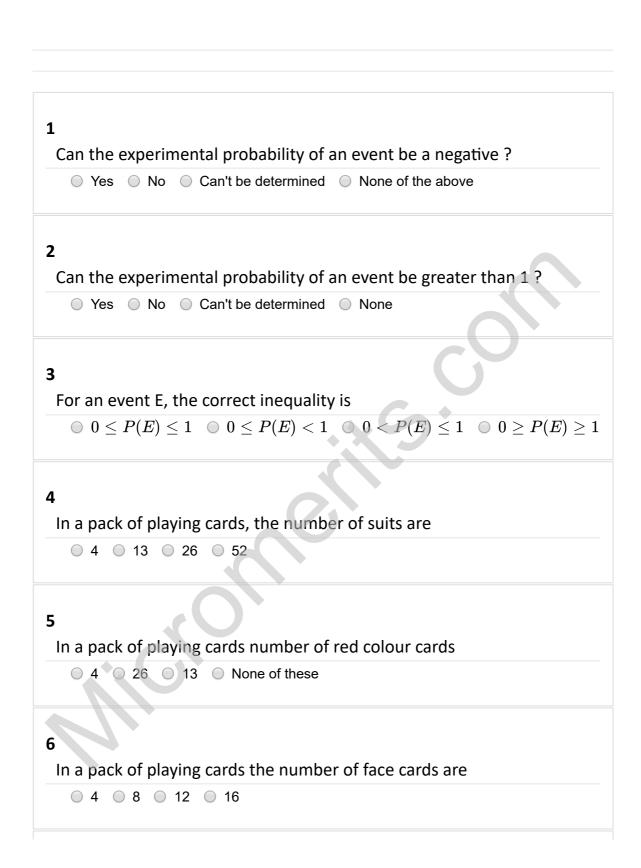
IITJEE Foundation Practice paper

PROBABILITY

class-8-Mathematics Number of Questions: 40

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

- $0 \frac{7}{6} \circ \frac{5}{6} \circ \frac{2}{6} \circ \frac{1}{6}$

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

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

10

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

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

11

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

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

12

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

- 0.25 0.50 0.75 0 1

13

A coin is tossed 100 times with the following frequencies:

Head = 45; Tail = 55

Then the probability of getting head is

- 0 4.5 0 45 0 0.45 0 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.

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

16

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

 $\bigcirc \ \, \frac{2}{6} \ \, \bigcirc \ \, \frac{1}{6} \ \, \bigcirc \ \, \frac{5}{6} \ \, \bigcirc \ \, \frac{4}{6}$

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.

20

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

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

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

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 :

- $1 \rightarrow 65$,
- 2
 ightarrow 40,
- $3 \rightarrow 42$,
- $4 \rightarrow 25$,
- $5 \rightarrow 33$,
- $6 \rightarrow 45$.

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 ?

 $\bigcirc \ \, \frac{1}{13} \ \, \bigcirc \ \, \frac{12}{13} \ \, \bigcirc \ \, \frac{11}{13} \ \, \bigcirc \ \, \frac{3}{13}$

29

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

 $\bigcirc \ \, \frac{1}{26} \ \, \bigcirc \ \, \frac{1}{13} \ \, \bigcirc \ \, \frac{3}{26} \ \, \bigcirc \ \, \frac{1}{52}$

30

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

 \bigcirc HH, TT \bigcirc HH, TH, TT \bigcirc HT, TH \bigcirc HH, HT, TH, TT

31

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

5 0 10 0 32 0 50

32

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

33

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

34

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

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

35

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

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

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

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

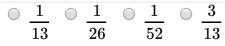
38

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

 $0 \frac{1}{2} \quad 0 \frac{1}{3} \quad 0 \frac{1}{4} \quad 0 \frac{1}{5}$

39

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



40

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

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