



## 15. Probability

Question 1.

If a die is thrown once, the probability of getting a prime number is

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

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

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Question 2.

Cards each marked with one of the numbers 4, 5, 6 ...20 are put in a box and mixed thoroughly. One card is drawn at random from the box. The probability of getting an even prime number is

- (a) 0
- (b)  $\frac{1}{20}$
- (c) 1
- (d)  $\frac{1}{2}$

Answer: (a) 0

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Question 3.

A fair die is cast in the game of 'Ludo'. The probability of getting a score greater than 6 is

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

Answer: (c) zero

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Question 4.

The probability that a non leap year selected at random will contain 53 Sunday's is

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

- (c)  $\frac{3}{7}$   
(d)  $\frac{5}{7}$

Answer: (a)  $\frac{1}{7}$

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Question 5.

A bag contains cards which are numbered from 2 to 90. A card is drawn at random from the bag. The probability that it bears a two digit number is:

- (a)  $\frac{88}{90}$   
(b)  $\frac{88}{92}$   
(c)  $\frac{81}{89}$   
(d)  $\frac{89}{90}$

Answer: (c)  $\frac{81}{89}$

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Question 6.

The probability of getting one head is

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

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

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Question 7.

A number is selected at random from 1 to 75. The probability that it is a perfect square is

- (a)  $\frac{4}{45}$   
(b)  $\frac{10}{75}$   
(c)  $\frac{6}{75}$   
(d)  $\frac{8}{75}$

Answer: (d)  $\frac{8}{75}$

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Question 8.

Three face cards of spade are removed from a well shuffled pack of 52 cards and a card is drawn from the remaining pack. The probability of getting a black face card is

- (a)  $\frac{12}{50}$
- (b)  $\frac{7}{49}$
- (c)  $\frac{3}{49}$
- (d)  $\frac{9}{50}$

Answer: (c)  $\frac{3}{49}$

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Question 9.

Ram and Shyam are friends. The probability that both will have the same birth day is

- (a)  $\frac{1}{365}$
- (b)  $\frac{2}{365}$
- (c)  $\frac{364}{365}$
- (d) none of these

Answer: (a)  $\frac{1}{365}$

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Question 10.

Find the probability of getting a number greater than 2 when a die is thrown

- (a)  $\frac{1}{6}$
- (b)  $\frac{2}{6}$
- (c)  $\frac{4}{6}$
- (d)  $\frac{2}{3}$

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

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Question 11.

If the probability of winning a game is 0.3, the probability of losing it is

- (a) 1.3
- (b) 1
- (c) 0.7
- (d) 0.1

Answer: (c) 0.7

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Question 12.

The total number of events of throwing 10 coins simultaneously is

- (a) 1024

- (b) 512
- (c) 100
- (d) 10

Answer: (a) 1024

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Question 13.

Two fair coins are tossed simultaneously. Find the probability of Getting only one head

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

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

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Question 14.

A card is drawn from a pack of 52 cards at random. The probability of getting neither an ace nor a king card is

- (a)  $\frac{2}{13}$
- (b)  $\frac{8}{13}$
- (c)  $\frac{4}{13}$
- (d)  $\frac{11}{13}$

Answer: (d)  $\frac{11}{13}$

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Question 15.

A box contains 3 blue balls, 2 white balls and 4 red balls. If a ball is drawn at random from the box, the probability of getting a white ball is

- (a)  $\frac{3}{9}$
- (b)  $\frac{4}{9}$
- (c)  $\frac{2}{9}$
- (d) 1

Answer: (c)  $\frac{2}{9}$

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Question 16.

In a throw of a die, the probability of getting a prime number is

- (a)  $\frac{1}{2}$
- (b) 6
- (c)  $\frac{3}{4}$
- (d)  $\frac{3}{2}$

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

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Question 17.

A card is drawn from a pack of 52 cards at random. The probability of getting either an ace or a king card is

- (a)  $\frac{4}{13}$
- (b)  $\frac{8}{13}$
- (c)  $\frac{3}{13}$
- (d)  $\frac{2}{13}$

Answer: (d)  $\frac{2}{13}$

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Question 18.

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

- (a)  $\frac{7}{8}$
- (b)  $\frac{3}{8}$
- (c)  $\frac{1}{4}$
- (d)  $\frac{3}{7}$

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

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Question 19.

Cards marked with numbers 1, 2, 3, ....., 25 are placed in a box and mixed thoroughly and one card is drawn at random from the box. The probability that the number on the card is a multiple of 3 or 5 is

- (a)  $\frac{8}{25}$
- (b)  $\frac{13}{25}$
- (c)  $\frac{4}{25}$
- (d)  $\frac{3}{5}$

Answer: (b)  $\frac{13}{25}$

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Question 20.

An urn contains lottery tickets numbered from 1 to 100. If a ticket is selected at random, then the probability that it is a perfect square is

- (a) 0.1
- (b) 0.08
- (c) 0.09
- (d) 0.01

Answer: (a) 0.1

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Question 21.

The probability of getting a prime number in single throw of a dice is:

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

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

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Question 22.

Which of the following can not be the probability of an event?

- (a) 0.1
- (b)  $\frac{1}{3}$
- (c)  $\frac{17}{16}$
- (d) 5%

Answer: (c)  $\frac{17}{16}$

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Question 23.

If an event cannot occur, then its probability is

- (a) 1
- (b)  $\frac{3}{4}$
- (c)  $\frac{1}{2}$
- (d) 0

Answer: (d) 0

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Question 24.

An unbiased die is thrown once. The probability of getting a prime number is

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

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