# MATHS

# BOOKS - ICSE

# PROBABILITY

**Example**

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**1.** Write all possible outcomes, when:

a coin is tossed once.

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**2.** Write all possible outcomes, when:

a coin is tossed two times or two coins are

tossed together once.

**3.** Write all possible outcomes, when:

a coin is tossed three times

**4.** Write all possible outcomes, when:

a die is thrown once

**5.** Write all possible outcomes, when:

a die is thrown two times

**6.** Can the probability of an event be 1.25? Give reason

**7.** Can the probability of an event be $-2$? Give reason

**8.** A dice is thrown once. Find the probability of getting : (i) an even number.

A. $\dfrac{1}{2}$

B. $\dfrac{1}{3}$

C. $\dfrac{1}{4}$

D. $\dfrac{1}{5}$

**Answer: A**

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**9.** A die is thrown once. Find the probability of getting: a multiple of 3

A. $\dfrac{4}{6}$

B. $\dfrac{4}{5}$

C. $\dfrac{1}{3}$

D. $\dfrac{2}{3}$

**Answer: C**

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**10.** A die is thrown once. Find the probability of getting: not a multiple of 3

A. $\dfrac{5}{6}$

B. $\dfrac{1}{3}$

C. $\dfrac{4}{5}$

D. $\dfrac{2}{3}$

**Answer: D**

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**11.** Two coins are tossed together. Find the probability of gettig:

no tail

**12.** Two coins are tossed together. Find the probability of gettig:

two tails

**13.** Two coins are tossed together. Find the probability of gettig:

exactly one tail

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**14.** A letter is chosen from the word 'TRIANGLE'. What is the probability that it is a vowel?

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**15.** A bag contains 4 red, 6 black and 5 white balls, A ball is drawn at random from the bag. Find the probability that the ball drawn is:

white

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**16.** A bag contains 4 red, 6 black and 5 white balls, A ball is drawn at random from the bag. Find the probability that the ball drawn is:

not black

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**17.** A bag contains 4 red, 6 black and 5 white balls, A ball is drawn at random from the bag. Find the probability that the ball drawn is:

red or black

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**Exercise**

**1.** A die is thrown, find the probability of getting:

a prime number

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**2.** A dice is thrown once. Find the probability of getting :

a number greater than 4

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**3.** A die is thrown, find the probability of getting:

a number not greater than 4

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**4.** A coin is tossed. What is the probability of getting:

a tail?

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**5.** A coin is tossed. What is the probability of getting:

a head?

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**6.** A coin is tossed twice. Find the probability of getting:

exactly one head

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**7.** A coin is tossed twice. Find the probability of getting:

exactly one tail

**8.** A coin is tossed twice. Find the probability of getting:

two tails

**9.** A coin is tossed twice. Find the probability of getting:

two heads

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**10.** A letter is chosen from the word 'PENCIL', what is the probability that the letter chosen is a consonant?

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**11.** A bag contains a black ball, a red ball and a green ball, all the balls are identical in shape and size. A ball is drawn from the bag without looking into it. What is the probability that the ball drawn is:

a red ball

**12.** A bag contains a black ball, a red ball and a green ball, all the balls are identical in shape and size. A ball is drawn from the bag without

looking into it. What is the probability that the ball drawn is:

not a red ball

**13.** A bag contains a black ball, a red ball and a green ball, all the balls are identical in shape and size. A ball is drawn from the bag without looking into it. What is the probability that the ball drawn is:

a white ball

**14.** In a single throw of a die, find the probability of getting a number greater than 2

**15.** In a single throw of a die, find the probability of getting a number less than or equal to 2

**16.** In a single throw of a dice, find the probability of getting a number :

not greater than 2.

**17.** A bag contains 3 white, 5 black and 2 red balls, all of the same shape and size. A ball is drawn from the bag without looking into it,

find the probability that the ball drawn is :

(i) a black ball.

**18.** A bag contains 3 white, 5 black and 2 red balls, all of the same size. A ball is drawn from the bag without looking into it, find the probability that the ball drawn is:

a red ball

**19.** A bag contains 3 white, 5 black and 2 red balls, all of the same shape and size. A ball is drawn from the bag without looking into it, find the probability that the ball drawn is :

(iii) a white ball.

**20.** A bag contains 3 white, 5 black and 2 red balls, all of the same size. A ball is drawn from the bag without looking into it, find the

probability that the ball drawn is:

not a red ball

**21.** A bag contains 3 white, 5 black and 2 red balls, all of the same size. A ball is drawn from the bag without looking into it, find the probability that the ball drawn is:

not a black ball

**22.** In a single throw of a die, find the probability that the number:

will be an even number

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**23.** In a single throw of a die, find the probability that the number:

will be an odd number

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**24.** In a single throw of a die, find the probability that the number:

will not be an even number

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**25.** In a single throw of a die, find the probability of getting:

8

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**26.** In a single throw of a die, find the probability of getting:

a number greater than 8

**27.** In a single throw of a dice, find the probability of getting : a number less than 8.

**28.** Which of the following can not be the probability of an event?

(i) $\dfrac{2}{7}$ (ii) 3.8 (iii) 37% (iv) $-0.8$ (v) 0.8 (vi) $\dfrac{-2}{5}$ (vii) $\dfrac{7}{8}$

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**29.** A bag contains six identical black balls. A boy withdraws one ball from the bag without looking into it. What is the probability that he

takes out:

a white ball?

**30.** A bag contains six identical black balls. A child withdraws one ball from the bag without looking into it. What is the probability that he takes out :

a black ball ?

**31.** Three identical coins are tossed together. What is the probability of obtaining :

all heads ?

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**32.** Three identical coins are tossed together. What is the probability of obtaining :

exactly two heads ?

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**33.** Three identical coins are tossed together.

What is the probability of obtaining :

exactly one head ?

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**34.** Three identical coins are tossed together.

What is the probabilit of obtaining:

no head?

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**35.** A book contains 92 pages. A page is chosen at random. What is the probability that the sum of the digits in the page number is 9?

**36.** Three identical coins are tossed together. What is the probability of obtaining :

at least one head ?

A. $\dfrac{3}{7}$

B. $\dfrac{3}{14}$

C. $\dfrac{5}{9}$

D. $\dfrac{3}{4}$

**Answer: D**

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**37.** If two coins are tossed once, what is the

probability of getting :

both heads or both tails ?

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**38.** From 10 identical cards, numbered 1,2,3,....., 10 one card is drawn at random. Find the probability that the number on the card drawn is a multiple of:

2

**39.** From 10 identical cards, numbered 1, 2, 3, . . . . , 10 one card is drawn at random. Find the probability that the number on the

card drawn is a multiple of:

3

A. $\dfrac{7}{10}$

B. $\dfrac{3}{10}$

C. $\dfrac{3}{11}$

D. $\dfrac{7}{13}$

**Answer: B**

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**40.** From 10 identical cards, numbered 1, 2, 3, .... , 10 one card is drawn at random. Find the probability that the number on the card drawn is a multiple of:

2 and 3

A. $\dfrac{1}{10}$

B. $\dfrac{3}{10}$

C. $\dfrac{1}{11}$

D. $\dfrac{1}{7}$

**Answer: A**

**41.** From 25 identical cards, numbered 1, 2, 3, 4,5........,24,25, one card is drawn at random. Find the probability that the number on the card drawn :

is a multiple of 3

**42.** Two dice are thrown at the same time. Find the probability that the sum of the two numbers appearing on the top of the disc is:

0

A. 1

B. $\dfrac{1}{2}$

C. 0

D. $\dfrac{3}{4}$

**Answer: C**

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**43.** Two dice are thrown at the same time. Find the probability that the sum of the two numbers appearing on the top of the disc is:

12

A. $\dfrac{11}{36}$

B. $\dfrac{1}{36}$

C. $\dfrac{1}{26}$

D. $\dfrac{7}{36}$

**Answer: B**

**44.** Two dice are thrown at the same time. Find the probability that the sum of the two numbers appearing on the top of the disc is:

12

**45.** Two dice are thrown at the same time. Find the probability that the sum of the two numbers appearing on the top of the dice is :

(iii) less than or equal to 12.

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**46.** A dice is thrown once. Find the pobability of getting a prime number.

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**47.** A die is thrown once. Find the probability of getting:

a number greater than 3

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**48.** A die is thrown once. Find the probability of getting:

a number other than 3 and 5

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**49.** A die is thrown once. Find the probability of getting:

a number less than 6

**50.** A dice is thrown once. Find the probability of getting a number :

greater than 6.

**51.** Two coins are tossed together. Find the probability of gettig:

exactly one tail

**52.** Two coins are tossed together. Find the probability of getting :

at least one head

**53.** Two coins are tossed together. Find the probability of getting :

no head

**54.** Two coins are tossed together. Find the probability of getting :

at most one head