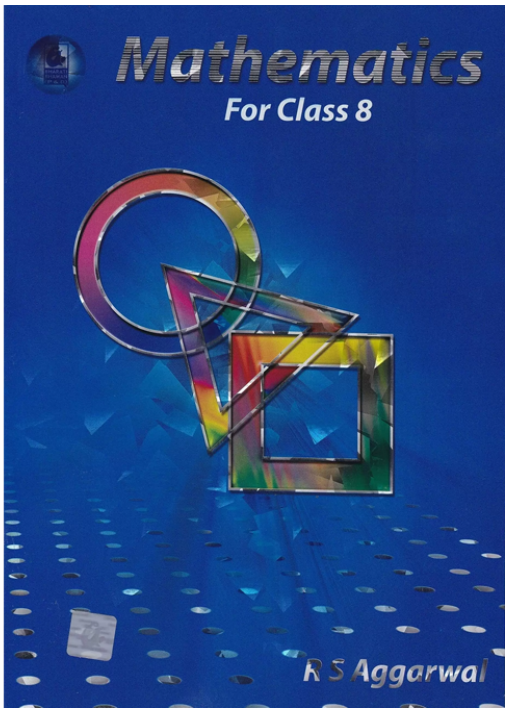
RS Aggarwal Solutions for Class 8 Maths Chapter 24–Probability

Class 8 - Chapter 24 Probability



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RS Aggarwal Solutions for Class 8 Maths Chapter 24–Probability

Class 8: Maths Chapter 24 solutions. Complete Class 8 Maths Chapter 24 Notes.

RS Aggarwal Solutions for Class 8 Maths Chapter 24–Probability

RS Aggarwal 8th Maths Chapter 24, Class 8 Maths Chapter 24 solutions

Ex 24A

Question 1.

Solution:

(i) When a coin is tossed, we get outcomes 2 as H or T (Head or Tail)

(ii) When two coins are tossed together, we get possible four outcomes as HH, HT, TH, TT

(iii) A die is thrown, we get possible outcomes as 1,2, 3, 4, 5, 6

(iv) From a well – shuffled deck of 52 cards, 0ne card is at random drawn, we get the possible outcomes is 52

Question 2.

Solution:

Possible outcomes = 2

In a single throw of a coin, we get

probability of getting a tail = 12

Question 3.

Solution:

In a single throw of two coins, possible outcomes = 4

(i) Probability of getting both tails = 14

(ii) Probability of getting at least one tail = 34

(iii) Probability of getting at the most one tail = 24 = 12

Question 4.

Solution:

In a bag, there are 4 white and 5 blue balls ,

Possible outcomes = 4 + 5 = 9

One ball is drawn at random, then

(i) the probability of a white ball = 49

(ii) the probability of a blue ball = 59

Question 5.

Solution:

In a bag, there are 5 white, 6 red and 4 green balls

Possible outcome is 5 + 6 + 4 = 15

One ball is drawn at random, then

(i) Probability of a green ball = 415

(ii) Probability of a white ball = 515 = 13

(iii) Probability of a non-red ball = 5+415

= 915

= 35

(5 white and 4 green balls are non-red balls)

Question 6.

Solution:

In a lottery, there are 10 prizes and 20 blanks

Possible outcomes = 10 + 20 = 30

A ticket is chosen at random, then

probability of getting a prize = 1030 = 13

Question 7.

Solution:

In a ,box of 100 electric bulb, 8 are defective

Then non-defective bulbs = 100 – 8 = 92

Now possible outcomes = 100

(i) Probability of a drawn bulb, which is defective = 8100 = 225

(ii) Probability of a drawn bulb which is non defective = 92100 = 2325

Question 8.

Solution:

A die is thrown, then

Possible outcomes = 6

(i) Now probability of getting 2 = 16

(ii) Probability of a number less than 3 (which are 1 and 2) = 26 = 13

(iii) Probability of a composite number (a composite number is a number which is not a prime number which are 4, 6) = 26 = 13

(iv) Probability of a number not less than 4 (which are 5, 6) = 26 = 13

Question 9.

Solution:

Total number of ladies = 200

Those who like coffee = 82

Those who dislike coffee = 118

Possible number of outcomes = 200

One lady is chosen at random, then

(i) Probability of a lady who dislikes coffee = 118200

= 59100

Question 10.

Solution:

19 ball bearing numbers, 1, 2, 3,…19

possible outcomes = 19

A ball is drawn at random from the box, then

(i) Probability of a ball which bears a prime numbers which are 2, 3, 5, 7, 11, 13, 17 and 19 = 8 = 819

(ii) Probability of a ball which bears an even number which are 2, 4, 6, 8, 10, 12, 14, 16, 18 = 9 = 919

(iii) Probability of a number which bears a number divisible by 3 which are 3, 6, 9, 12, 15, 18 = 6 = 619

Question 11.

Solution:

A card's drawn at random from a deck

of well-shuffled deck of 52 cards Probability = 52

(i) Probability of a card being a king = 452 = 113

(ii) Probability of a card being spade = 1352 = 14

(iii) Probability of a card being a red queen = 252 = 126

(iv) Probability of a card being a black 8 = 252 = 126

Question 12.

Solution:

One card is drawn at random from a deck of well shuffled deck of 52 cards

Possible outcomes = 52

(i) Probability of a card being a 4 = 452 = 113

(ii) Probability of a card being a queen = 452 = 113

(iii) Probability of a card being a black card = 2652 = 12

Ex 24B

Question 1.

Solution:

A spinning wheel has 3 white and 5 green sectors

Possible out come = 3 + 5 = 8

It is spinners, then

Probability of getting a green sector = 58 (b)

Question 2.

Solution:

8 cards are numbered 1, 2, 3, 4, 5, 6, 7, 8

They are mixed and kept in a box One card is chosen at random, then Probability of card having 9 number less than 4 = 38 (c)

Question 3.

Solution:

Two coins are tossed simultaneously, then Possible outcomes = 4

Now probability of getting one head and one tail = 24 = 12 (b)

Question 4.

Solution:

. In a bag, there are 3 white and 2 red balls

Possible outcomes = 3 + 2 = 5

Now probability of a red ball drawn

= 25 (d)

Question 5.

Solution:

A die is thrown then

Possible outcomes = 6

Now probability of getting 6 is 16 (b)

Question 6.

Solution:

A die is thrown

Possible outcomes = 6

Now probability of getting an even number

which are 2, 4, 6 = 36 = 12 (a)

Question 7.

Solution:

One card is drawn from a well shuffled deck of 52 cards, possible out comes = 52

The probability of card which is a queen = 452

= 113 (c)

Question 8.

Solution:

One card is drawn from a well-shuffled deck of 52 card, possible out comes = 52
Probability of a card being a black 6

(which are two) = 252 = 126 (b)

RS Aggarwal Class 8 Solutions

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He was born on January 2, 1946 in a village of Delhi. He graduated from Kirori Mal College, University of Delhi. After completing his M.Sc. in Mathematics in 1969, he joined N.A.S. College, Meerut, as a lecturer. In 1976, he was awarded a fellowship for 3 years and joined the University of Delhi for his Ph.D. Thereafter, he was promoted as a reader in N.A.S. College, Meerut. In 1999, he joined M.M.H. College, Ghaziabad, as a reader and took voluntary retirement in 2003. He has authored more than 75 titles ranging from Nursery to M. Sc. He has also written books for competitive examinations right from the clerical grade to the I.A.S. level.

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