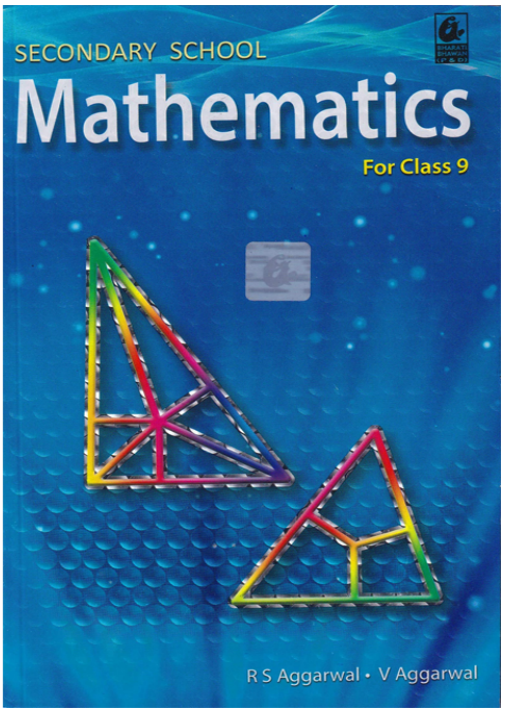
RS Aggarwal Solutions for Class 9 Maths Chapter 15–Probability

Class 9 - Chapter 15 Probability



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Postal Address

IndCareer.com, 52, Shilpa Nagar, Somalwada Nagpur - 440015
Maharashtra, India

WhatsApp: +91 9561 204 888, **Website:** https://www.indcareer.com

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RS Aggarwal Solutions for Class 9 Maths Chapter 15–Probability

Class 9: Maths Chapter 15 solutions. Complete Class 9 Maths Chapter 15 Notes.

RS Aggarwal Solutions for Class 9 Maths Chapter 15–Probability

RS Aggarwal 9th Maths Chapter 15, Class 9 Maths Chapter 15 solutions

Question 1.

Solution:

Number of trials = 500 times

Let E be the no. of events in each case, then

∴No. of heads (E1) = 285 times

and no. of tails (E2) = 215 times

∴ Probability in each case will be

∴(i)P(E1) = 285500 = 57100 = 0.57

(ii) P(E2) = 215500 = 43100 = 0.43

Question 2.

Solution:

No. of trials = 400

Let E be the no. of events in each case, then

No. of 2 heads (E1) = 112

No. of one head (E2) = 160 times

and no. of O. head (E3) = 128 times

∴ Probability in each case will be:

∴ (i)P(E1) = 112400 = 28100 = 0.28

(ii)P(E2) = 160400 = 40100= 0.40

(iii) P(E3) = 128400 = 32100 = 0.32 Ans.

Question 3.

Solution:

Number of total trials = 200

Let E be the no. of events in each case, then

No. of three heads (E1) = 39 times

No. of two heads (E2) = 58 times

No. of one head (E3) = 67 times

and no. of no head (E4) = 36 times

∴ Probability in each case will be .

(i) P(E1) = 39200 = 0.195

(ii) P(E3) = 67200 = 0.335

(iii) P(E4) = 36200 = 18100 = 0.18

(iv) P(E2) = 58200 = 29100 = 0.29

Question 4.

Solution:

Solution No. of trials = 300 times

Let E be the no. of events in each case, then

No. of outcome of 1(E1) = 60

No. of outcome of 2(E2) = 72

No. of outcome of 3(E3) = 54

No. of outcome of 4(E4) 42

No. of outcome of 5(E5) = 39

No. of outcome of 6(E6) = 33

The probability of

(i) P(E3) = 54300 = 18100 = 0.18

(ii) P(E6) = 33100 = 11100= 0.11

(iii) P(E5) = 39300 = 13100 = 0.13

(iv) P(E1) = 60300 = 20100= 0.20 Ans.

Question 5.

Solution:

No. of ladies on whom survey was made = 200.

Let E be the no. of events in each case.

No. of ladies who like coffee (E1) = 142

No. of ladies who like coffee (E2) = 58

Probability of

(1) P(E1) = 142200 = 71100 = 0.71

(ii) P(E2) = 58200 = 29100 = 0.29 Ans.

Question 6.

Solution:

Total number of tests = 6

No. of test in which the students get more than 60% mark = 2

Probability will he

P(E) = 26 = 13Ans.

Question 7.

Solution:

No. of vehicles of various types = 240

No. of vehicles of two wheelers = 64.

Probability will be P(E) = 84240 = 720 = 0.35 Ans.

Question 8.

Solution:

No. of phone numbers are one page = 200

Let E be the number of events in each case,

Then (i) P(E5) = 24200 = 12100 = 0.12

(ii) P(E8) = 16200 = 8100 = 0.08 Ans.

Question 9.

Solution:

No. of students whose blood group is checked = 40

Let E be the no. of events in each case,

Then (i) P(E0) = 1440 = 720 = 0.35

(ii) P(EAB) = 640 = 320 = 0.15 Ans.

Question 10.

Solution:

No. of total students = 30.

Let E be the number of elements, this probability will be of interval 21 – 30

P(E) = 630 = 15 = 0.2 Ans.

Question 11.

Solution:

Total number of patients of various age group getting medical treatment = 360

Let E be the number of events, then

(i) No. of patient which are 30 years or more but less than 40 years = 60.

P(E) = 60360 = 16

(ii) 50 years or more but less than 70 years = 50 + 30 = 80

P(E) = 80360 = 29

(iii) Less than 10 years = zero

P(E) = 0360 = 0

(iv) 10 years or more 90 + 50 + 60 + 80 + 50 + 30 = 360

RS Aggarwal Class 9 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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Postal Address

IndCareer.com
52, Shilpa Nagar,
Somalwada
Nagpur - 440015
Maharashtra, India

WhatsApp: +91 9561 204 888

Website: https://www.indcareer.com