RD SHARMA

Solutions

Class 9 Maths

Chapter 24

Ex *24.4*

Q 1 . Find out the mode of the following marks obtained by 15 students in a class :

Marks : 4 , 6 , 5 , 7 , 9 , 8 , 10 , 4 , 7 , 6 , 5 , 9 , 8 , 7 , 7.

SOLUTION :

Marks	4	5	6	7	8	9	10
No.of Students	2	2	2	4	2	2	1

Since maximum frequency corresponds to the value 7 then mode = 7 marks.

Q 2 . Find out the mode from the following data :

125 , 175 , 225 , 125 , 225 , 175 , 325 , 125 , 375 , 225 , 125

SOLUTION :

Values	125	175	225	325	375
Frequency	4	2	3	1	1

Since maximum frequency 4 corresponds to the value 125 then mode = 125

Q 3 . Find the mode for the following series :

7.5 , 7.3 , 7.2 , 7.2 , 7.4 , 7.7 , 7.7 , 7.5 , 7.3 , 7.2 , 7.6 , 7.2

SOLUTION :

Values	7.2	7.3	7.4	7.5	7.6	7.7
Frequency	4	2	1	2	1	2

Since maximum frequency 4 corresponds to the value 7.2 then mode = 7.2

Q 4 . Find the mode of the following data in each case :

(i) . 14 , 25 , 14 , 28 , 18 , 17 , 18 , 14 , 23 , 22 , 14 , 18

SOLUTION :

Arranging the numbers in ascending order:

14 , 14 , 14 , 14 , 17 , 18 , 18 , 18 , 22 , 23 , 25 , 28

Here the observation 14 is having the highest frequency i . e , 4 in given data, so mode = 14.

(ii) . 7 , 9 , 12 , 13 , 7 , 12 , 15 , 7 , 12 , 7 , 25 , 18 , 7

SOLUTION :

Values	7	9	12	13	15	18	25
Frequency	5	1	3	1	1	1	1

Since maximum frequency 5 corresponds to the value 7 then mode = 7

Q 5 . The demand of different shirt sizes, as obtained by a survey, is given below :

Size:	38	39	40	41	42	43	44	Total
No. of persons(wearing it)	26	39	20	15	13	7	5	125

Find the modal shirt sizes, as observed from the survey.

SOLUTION :

Size:	38	39	40	41	42	43	44	Total
No. of persons(wearing it)	26	39	20	15	13	7	5	125

Since, maximum frequency 39 corresponds to the value 39 then mode = 39