MATHS

BOOKS - RD SHARMA MATHS (HINGLISH)

DATA HANDLING-I (CLASSIFICATION AND TABULATION DATA)

Others

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1. From a discrete frequency distribution from the following scores:

15,18,16,20,25,24,25,20,16,15,18,18,16,24,15,20,28,30,27,16,24, 25,20,18,28,27,25,24,24,18,18,25,20,16,15,20,27,28,29,16

2. Define the following terms:

(i) Observations

(ii) Raw data

(iii) Frequency of an observation

(iv) Frequency distribution

(v) Discrete frequency distribution

(vi) Grouped frequency distribution

(vii) Class-interval

(viii) Class-size

(ix) Class limits

(x) True class limits

3. The final marks in mathematics of 30 students are as follows: 53,61,48,60,78,68,55,100,67,90,75,88,77,37,84 58,60,48,62,56,44,58,52,64,98,59,70,39,50,60   Arrange these marks in the ascending order, 30 to 39 one group, 40 to 49 second group etc. Now answer the following: What is the highest score? What is the lowest score? What is the range? If 40 is the pass marks how many have failed? How many have scored 75 or more? Which observations between 50 and 60 have not actually appeared? How many have scored less than 50?

4. The weights of new born babies (in kg) in a hospital on a particular day are as follows: 2.3, 2.2, 2.1, 2.7, 2.6, 3.0, 2.5, 2.9, 2.8, 3.1, 2.5, 2.8, 2.7, 2.9, 2.4 Rearrange the weights in descending order. Determine the highest weight. Determine the lowest weight. Determine the range. How many babies were born on that day? How many babies weight below 2.5 kg.? How many babies weigh more than 2.8 kg? How many babies weight 2.8 kg?

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5. Following figures relate to the weekly wages (in Rs.) of 15 workers in a factory:

300,250,200,250,200,150,350,200,250,200,150,300,150,200,250

Prepare a frequency table. What is the range in wages (in Rs)? How many workers are getting Rs. 350? How many workers are getting the minimum wages?

6. Construct a frequency distribution table for the following marks obtained by 25 students in a history test in class VII of a school:

9,17,12,20,9,18,25,17,19,9,12,9,12,18,17,19,20,25,9,12,17, 19,19,20,9

What is the range of marks? What is the highest mark? Which mark is occurring more frequently?

7. The water tax bills (in rupees) of 30 houses in a locality are given below. Construct a grouped frequency distribution with class size of 10.

30,32,45,54,74,78,108,112,66,76,88,40,14,20,15,35,44,66,

75,84,95,96,102,110,88,74,112,14,34,44

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8. The marks scored by 20 students in a test are given below:

54,42,68,56,62,71,78,51,72,53,44,58,47,64,41,57,89,53,87,57.

Complete the following frequency table: Marks in class intervals, Tally marks, Frequency (No. of children 40-50 50-60 60-70 70-80 80-90, , What is the class interval in which the greatest frequency occurs?

9. The following is the distribution of weights (in kg) of

52 persons:

$$\begin{cases} \text{Weight in kg} & \text{Person} \\ 30 - 40 & 10 \\ 40 - 50 & 15 \\ 50 - 60 & 17 \\ 60 - 70 & 6 \\ 70 - 80 & 4 \end{cases}$$

What is the lower limit of class 50-60?

Find the class marks of the classes 40-50, 50-60

What is the class size?

10. Construct a frequency table for the following weights (in gm) of 35 mangoes using the equal class intervals, one of them is 40-45 (45 not included): 30,40,45,32,43,50,55,62,70,70,61,62,53,52,50,42,35,37,53, 55,65,70,73,74,45,46,58,59,60,62,74,34,35,70,68   What is the class marks of the class interval 40-45? What is the range of the above weights? How many classes are there?

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