



MATHS

BOOKS RD SHARMA MATHS (ENGLISH)

DATA HANDLING-IN (PRESENTATION OF DATA)

All Questions

1. Given below are the ages of 25 students of class VIII in a school. Prepare a discrete frequency distribution.

15,16,16,14,17,17,16,15,15,16,16,17,15,16,16,14,16,15,14,15,16,16,15,14,15



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2. Form 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



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3. Define the following terms:
(i) Observations (ii) data (iii) Frequency of an observation (iv) Frequency distribution



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4. 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?



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5. The weights of new born babies (in kg) in a hospital on a particular day are as follows: 2.2, 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 weigh below 2.5 kg? How many babies weigh more than 2.8? How many babies weigh 2.8 kg?



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6. Following data gives the number of children in 40 families:

1,2,6,5,1,5,1,3,2,6,2,3,4,2,0,0,4,4,3,2

2,0,0,1,2,2,4,3,2,1,0,5,1,2,4,3,4,1,6,2 Represent it in the form of a frequency distribution.



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7. Prepare a frequency table of the following scores obtained by 50 students in a test: 42, 51, 21, 42, 37, 37, 42, 49, 38, 52, 7, 33, 17, 44, 39, 7, 14, 27, 39, 42, 42, 62, 37, 39, 67, 51, 53, 53, 59, 41, 29, 38, 27, 31, 54, 19, 53, 51, 22, 61, 42, 39, 59, 47, 33, 34, 16, 37, 57, 43



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8. A die was thrown 25 times and following scores were obtained: 1, 5, 2, 4, 3 6, 1, 4, 2, 5 1, 6, 2, 6, 3 5, 4, 1, 3, 2 3, 6, 1, 5, 2 Prepare a frequency table of the scores.



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9. In a study of number of accidents per day, the observations for 30 days were obtained as follows: 6, 3, 5, 6, 4, 3, 2, 5, 4, 2 4, 2, 1, 2, 2, 0, 5, 4, 6, 1 6, 0, 5, 3, 6, 1, 5, 5, 2, 6 Prepare a frequency distribution table



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10. Prepare a frequency table of the following ages (in years) of 30 students of class VIII in your school: 13, 14, 13, 12, 14, 13, 14, 15, 13, 14, 13, 14, 16, 12, 14, 13, 14, 15, 16, 13, 14, 13, 12, 17, 13, 12, 13, 13, 13, 14



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11. Following figures relate 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?



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12. Construct a frequency distribution table for the following marks obtained by 25 students in a history test in class VI 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?



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13. In a study of number of accidents per day, the observations for 30 days were obtained as follows: 6, 3, 5, 6, 4, 3, 2, 5, 4, 2, 4, 2, 1, 2, 2, 0, 5, 4, 6, 1, 6, 0, 5, 3, 6, 1, 5, 5, 2, 6 Prepare a frequency distribution table



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14. Following is the choice of sweets of 30 students of Class VI. Ladoo, Barfi, Ladoo, Jalebi, Ladoo, Rasgulla, Jalebi, Ladoo, Barfi, Rasgulla, Ladoo, Jalebi, Jalebi, Rasgulla, Ladoo, Rasgulla, Jalebi, Ladoo, Rasgulla, Ladoo, Ladoo, Barfi, Rasgulla, Rasgulla, Jalebi, Rasgulla, Ladoo, Rasgulla, Jalebi, Ladoo. (a) Arrange the names of sweets in a table using tally marks. (b) Which sweet is preferred by most of the students?



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