



## MATHS

### BOOKS - RD SHARMA MATHS (ENGLISH)

#### DATA HANDLING-II (HISTOGRAMS)

#### Others

1. The following table gives the marks scored by 100 students in an entrance examination.

Represent this data in the form of a histogram.

Marks	No. of Students (Frequency)
0 – 10	4
10 – 20	10
20 – 30	16
30 – 40	22
40 – 50	20
50 – 60	18

60 – 70	8
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70 – 80	2
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2. The following is the distribution of weights (in kg) of 50 persons:

Draw a histogram for the above data.

Weight	No. of Person (Frequency)
50 – 55	12
55 – 60	8
60 – 65	5
65 – 70	4
70 – 75	5
75 – 80	7
80 – 85	6
85 – 90	3



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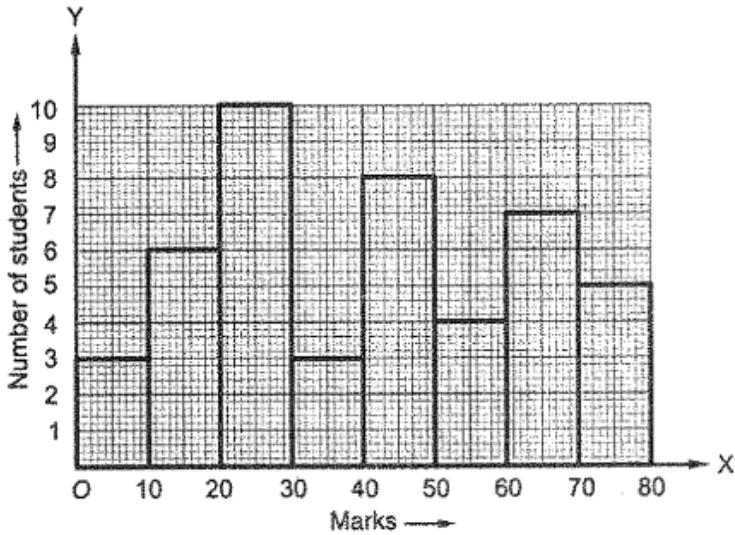
3. The following histogram shows the monthly wages (in Rs.) of workers in a factory: Figure Find the largest and least number of workers and also their wages in rupees.



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4. The following histogram depicts the marks obtained by 45 students of a class: Figure: Look at the histogram and answer the following questions: What is the class size? How many students obtained less than 10 marks? How many students obtained 30 or more marks but less than 40? What is the interval of highest marks and how many students are there in this interval? If passing marks are 30, what is the number of

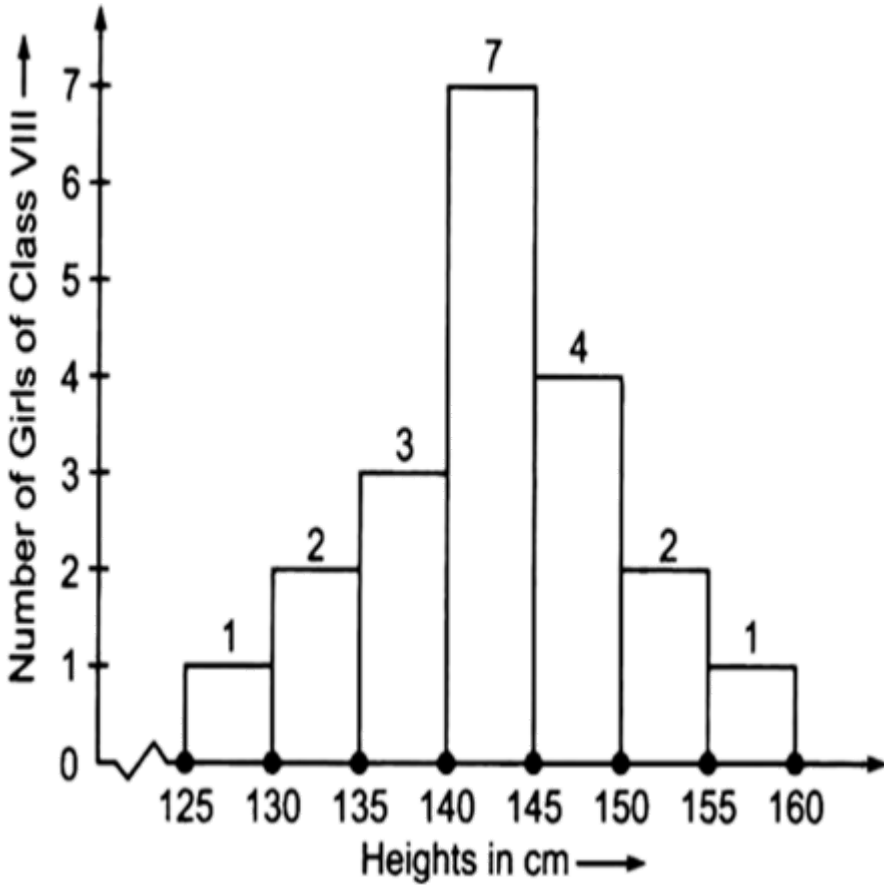
failures?



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5. Observe the following histogram and answer the questions given below: Figure What information is being given by the graph? Which group does contain maximum girls? How many girls have a height of 145 cm and more? If we divide the girls in 3 categories, how many would there be in each? 150 cm and more - Group A 140 cm to less than 150cm - Group

B Less than 140cm - Group C



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6. The number of hours television watched in a day by the students of a particular class during holidays is shown in the following histogram: Look at the histogram and answer the following questions: 1. For how many

hours the maximum number of students watch TV? 2. How many students watch TV for less than 4 hours? 3. How many students spend more than 5 hours in watching TV?



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7. Given below is the frequency distribution of the heights of 50 students of a class: Class Interval:, 140-145, 145-150, 150-155, 155-160, 160-165  
Frequency:, 8, 12, 18, 10, 5 Draw a histogram representing the above data.



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8. Draw a histogram of the following data: Class interval: 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, Frequency: 30, 98, 80, 58, 29, 50,



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9. Number of workshops organized by a school in different areas during the last five years are as follows:

years	No. of workshops
1995-1996	25
1996-1997	30
1997-1998	42
1998-1999	50
1999-2000	65

Draw a histogram representing the above data.

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10. In a hypothetical sample of 20 people the amounts of money with them were found to be as follows:

114, 108, 100, 98, 101, 109, 117, 119, 126, 131, 136, 143, 156, 169, 182, 195, 200

Draw the histogram of the frequency distribution (taking one of the class intervals as 50 – 100)

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11. Construct a histogram for the following data:

Monthly school fee (in Rs)	30 – 60	60 – 90	90 – 120	120 – 150	150 – 180
No. of schools	5	12	14	18	10

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12. Draw a histogram for the daily earnings of 30 drug stores in the following table:

Daily earning (in Rs.):

450 – 500, 500 – 550, 550 – 600, 600 – 650, 650 – 700

No. of Stores: 16, 10, 7, 3, 1

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13. Draw a histogram to represent the following data: Monthly salary (in Rs.), Number of teachers

Monthly salary (in Rs.)	Number of teachers
5600-5700	8
5700-5800	4
5800-5900	3
5900-6000	5
6000-6100	2
6100-6200	3
6200-6300	1
6300-6400	2

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14. The following histogram shows the number of literate females in the age group of 10 to 40 years in a town: 1. Write the age group in which the



number of literate female is the highest. 2. What is the class width? 3. What is the lowest frequency? 4. What are the class marks of the classes? 5. In which age group literate females are the least?



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**15.** Below is the histogram depicting marks obtained by 43 students of a class: 1. Write the number of students getting the highest marks. 2. What is the class size?



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**16.** The weekly wages (in Rs.) of 30 workers in a factory are give:  
830,835,890,810,835,836,869,845,898,890,  
820,860,832,833,855,845,804,808,812,,840,885,835,835,836,878,840,868,890,806,84  
Mark a frequency table with intervals as 800-810, 810-820 and so on, using tally marks. Also, draw a histogram and answer the following questions: Which group has the maximum number of workers? How many

workers earn Rs. 850 and more? How many workers earn less than Rs. 850?



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