



Class-5

Subject-Mathematics

Chapter-13 (Data Arrangement)

Date: 22/10/2020

Lecture- 01 (Solution)

1. Show the distribution data of section B students

Section B: 12, 14, 24, 29, 16, 12, 9, 29, 20, 16, 28, 12, 8, 29, 24, 29, 12, 6, 22, 28.

Solution: The given data are arranged in ascending order: 6, 8, 9, 12, 12, 12, 12, 14, 16, 16, 20, 22, 24, 24, 28, 28, 29, 29, 29, 29

Lowest value of the data = 6

Height value of the data = 29

\therefore Range = $(29 - 6) + 1 = 23 + 1 = 24$

\therefore Number of class with class interval 5 = $\frac{24}{5} = 4.8 \approx 5$

Class interval	Tally	Number
5 – 9		3
10 – 14		5
15 – 19		2
20 – 24		4
25 - 29		6

Total = 20

2. The following data shows the height of grade 5 students in one school. Prepare the table in 3 different class intervals as shown below.

Height of students (in centimetres)

130, 132, 134, 128, 121, 123, 138, 124, 134, 139, 122, 124, 126, 128, 123, 126, 130, 131, 137, 135, 121, 125, 131, 134, 133, 141, 129, 133, 126, 128

Table 1

Height Interval	Number
120 - 123	
124 – 126	
127 – 129	
130 – 132	
133 – 135	
136 – 138	
139 – 141	
Total	

Table 2

Height Interval	Number
120 – 124	
125 – 129	
130 – 134	
135 – 139	
140 – 144	
Total	

Table 3

Height Interval	Number
120 – 129	
130 – 139	

140 – 149	
Total	

Solution: The given data are arranged in ascending order: 121, 121, 122, 123, 123, 124, 124, 125, 126, 126, 126, 128, 128, 128, 129, 130, 130, 131, 131, 132, 133, 133, 134, 134, 134, 135, 137, 138, 139, 141

Table 1

Height Interval	Number
120 - 123	5
124 – 126	6
127 – 129	4
130 – 132	5
133 – 135	6
136 – 138	2
139 – 141	2
Total	30

Table 2

Height Interval	Number
120 – 124	8
125 – 129	7
130 – 134	10
135 – 139	4
140 – 144	1
Total	30

Table 3

Height Interval	Number
120 – 129	15
130 – 139	14
140 – 149	1
Total	30

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