



**SpeedLabs**

**MATHS**

**ICSE 8<sup>th</sup>**

**TEEVRA EDUTECH PVT. LTD.**

1. Construct a frequency table of the following data:

3,2,5,4,1,3,2,2,5,3,1,2,1,1,2,2,3,4,5,3,1,2,3

Ans. (i) First step is to arrange the data in ascending order.

1,1,1,1,1,2,2,2,2,2,2,2,3,3,3,3,3,4,4,3,3,3

x	Tally	f
1		5
2		7
3		6
4		2
5		3

2. The marks out of 50, obtained by 30 students of a class in an examination are given below:

40,12,46,37,17,27,30,6,2,23,19,39,25,5,33

19,21,12,41,17,12,19,17,8,10,1,9,21,13,48

Arrange them in ascending order and present it in a grouped data, by taking class interval as

0 – 10, 10 – 20, 20 – 30, 30 – 40, 40 – 50

Ans. In ascending order:

1,2,5,6,8,9,10,12,12,12,13,17,17,17,19,19,19,21,21, 23,25,27,30,33,37,39,40, 41,46,48

x	f (number of students)
0 – 10	6
10 – 20	11
20 – 30	5
30 – 40	4
40 – 50	4

3. The fine imposed in Rs. on 40 students for being absent is given below:

18,8,12,6,8,16,12,5,23,2,16,23,2,10,20,12,9,7,0,5,  
3,6,27,21,19,15,20,24,2,16,14,8,23,24,10,14,3,8,11,2

Present the data in the form of frequency distribution table by taking class interval of  
0–5, 5–10, 10–15, 15–20, 20–25

Ans.

Fine (Rs.)	Tally	f (no of students)
0 – 5		7
5 – 10		10
10 – 15		8
15 – 20		6
20 – 25		8
25 – 30		1

4. The heights of 45 students measured to the nearest centimeter are given below:

155,166,159,161,158,154,153,159,157,152,160,157,158,170,  
152,151,162,164,171,154,165,161,150,168,162,154,160,170,163,164,  
165,169,165,155,157,158,160,161,156,153,150,165,167,169,172

Prepare a frequency table taking class intervals 150–155, 155–160, 160–165, 165–170, 170–175

Ans.

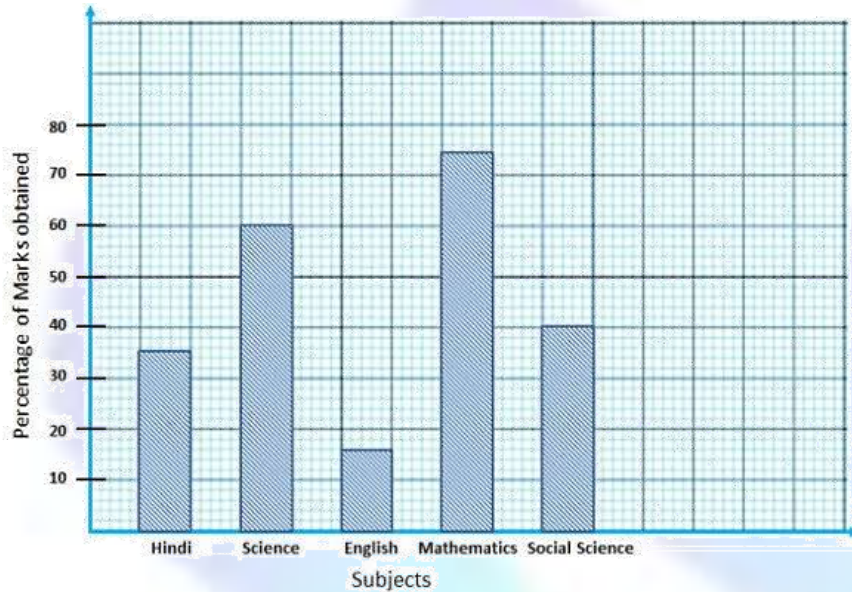
Class Interval	Tally	f
150 – 155		10
155 – 160		11
160 – 165		11
165 – 170		9
170 – 175		4

5. The percentage of the marks obtained by a student in different subjects are given below:

Subject	Hindi	Science	English	Mathematics	Social Science
Percentage of marks obtained	35	60	15	75	40

Draw a bar graph to represent the above data.

Ans.

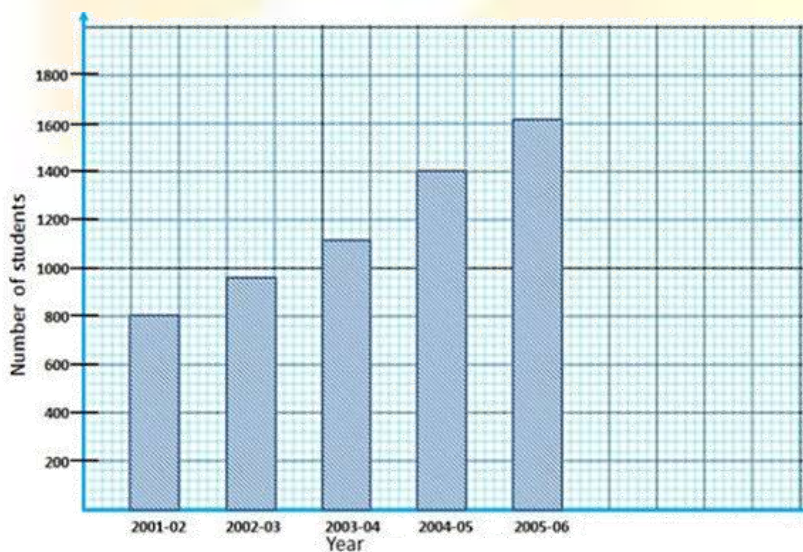


6. Given below is a table which shows year wise strength of a school:

Year	2001-02	2002-03	2003-04	2004-05	2005-06
No. of students	800	975	1100	1400	1625

Represent the above by a column graph.

Ans.



7. The number of pressure cookers produced in a factory during five consecutive months is given below:

Month	January	February	March	April	May
No of pressure cooker produced	780	1100	920	1040	1280

Draw a bar graph representing the above information.

Ans.

