

Year 9 Data Worksheet



1. Draw an Ogive for the following frequency distribution by “Less than” method :

Marks	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
Number of students	7	10	23	51	6	3

2. Calculate the range and semi-interquartile range of wages :

Wages (\$)	30-32	32-34	34-36	36-38	38-40	40-42	42-44
Labourers	12	18	16	14	12	8	6

3. Find lower quartile, upper quartile, inter-quartile range and semi inter-quartile range of :

3, 6, 8, 13, 15, 5, 21, 23, 17, 10, 9, 1, 20, 21, 18, 12.

- 4.

Find the mean of frequency distribution:

Variable x	1	2	3	4	5
Frequency f	1	6	8	4	1

5. Given below are the weekly wages of 200 workers in a small factory:

Weekly wages in \$.	80 – 100	100 – 120	120 – 140	140 – 160	160 – 180
No. of workers	20	30	20	40	90

Calculate the mean weekly wage.

6. Represent the following data by means of a histogram:

Class interval	0 – 5	5 – 10	10 – 20	20 – 30	30 – 50	50 – 70
Frequency	5	10	15	20	25	30

7. The mean of the following frequency table is 50. But the frequencies f_1 and f_2 in the classes 20 – 40 and 60 – 80 are missing. Find the values of f_1 and f_2 .

Class	0 – 20	20 – 40	40 – 60	60 – 80	80 – 100	Total
Frequency	17	f_1	32	f_2	19	120

Year 9 Data Worksheet



8. Find the median class of the following data:

Marks obtained	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
Frequency	8	10	12	22	30	18

9. Using the data given below, Construct a cumulative frequency table and draw the ogive. From the ogive determine the median marks.

Marks	0 – 5	5 – 10	10 – 15	15 – 20	20 – 25	25 – 30	30 – 35	35 – 40
No of Students	3	7	15	24	16	8	5	2

10. The following table gives the distribution of students of two sections according to the marks obtained by them:

Section A		Section B	
Marks	Frequency	Marks	Frequency
0 - 10	3	0 - 10	5
10 – 20	9	10 - 20	19
20 - 30	17	20 - 30	15
30 - 40	12	30 – 40	10
40 – 50	9	40 – 50	1

Represent the marks of the students of both the sections on the same graph by two frequency polygons. From the two polygons can you compare the performance of the two sections.