

Mean for Grouped Data

Mean (Arithmetic Mean)

- the most commonly used measure of central tendency
- the sum of measures x divided by the number N of measures in a variable

To find the mean of grouped data using class marks, the following formula can be used:

$$Mean = \bar{x} = \frac{\sum fX}{\sum f}$$

where: f = frequency of each class
 X = class mark of each class

Practice Exercises

Calculate the mean of the following frequency distribution tables.

Mid-year Test Scores of Students in Math

Score	Frequency
41 – 45	1
36 – 40	8
31 – 35	8
26 – 30	14
21 – 25	7
16 – 20	2

Weight of 8–Tesla Students

Weight in kg	Frequency
40 – 44	1
45 – 49	14
50 – 54	15
55 – 59	21
60 – 64	14
65 – 69	10
70 – 74	4
75 – 79	1

Problem Set

Calculate the mean, median, and mode of the following frequency distribution tables.

Scores of 10–Tesla Students in the 4th Periodic Test in Mathematics

Score	Frequency
46 – 50	2
41 – 45	9
36 – 40	13
31 – 35	11
26 – 30	10
21 – 25	5

Number of Mistakes Made by 50 Students in Factoring Quadratic Equations

Number of Mistakes	Frequency
0 – 2	4
3 – 5	8
6 – 8	15
9 – 11	10
12 – 14	6
15 – 17	5
18 – 20	2

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