A Mean

- ✓ add all values in a set of data and divide by the number of values
- ✓ mean is called also average

MII MIO

$$\mu = \frac{v_1 + v_2 + v_3 + \dots + v_n}{n}$$

Example 1. The students' test scores in MBF3C class are given below. Find the mean of these scores.

67, 56, 81, 92, 63, 78, 82, 97, 100, 43, 55

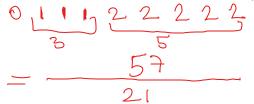
 $M = \frac{67 + 56 + 81 + 92 + 63 + 78 + 82 + 97 + 100 + 43 + 55}{814} = 74$: The mean is 74

Example 2. The table below show data about how many hours spent on social networks usage by a group of students.

Number of hours	0	1	2	3	4	5	6
Number of students	1	3	5	6	4	2	0

Find the mean of the number of hours spent on social networks.

40x 6



2.71

e student spend

B Median

To find the median

- ✓ sort (order) the values in the given set
- √ find the middle value (if there is only one)
- √ find the mean of the middle values (if there are two values in the middle)

networks

Example 3. For each of the following cases, find the median.

a) 2, 5, 2, 7, 3, 10, 3, 2, 8, 9, 1, 0, 5

O 1 2 2 2 3, 3) 5 5 7 8 9 10 (order)

6 #5

... Median value is 3

b) 5, 2, 8, 5, 1, 0, 3, 8, 1, 2, 8, 3, 1, 8

O 1 1 2 2 3 3, 5 5 6 7 8 8 8

7 #5

7 #5

Median is 4

C Mode

✓ The value(s) that occurs most often in the set of data

Example 5. Calculate the mode for each set of data.

a) 3, 7, 5, 13, 20, (23, 39, (23), 40, (23), 14, 12, 56, (23), 29

The Mode is 2 3

b) 1, 3(3(3), 4, 4, 6, 6, 6, 9

We have 6 3 4 ines

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D Technology

Use technology (calculator or online applications) to compute faster the mean, median, and the mode for a set of data.

Example 6. Calculate the mean, median, and mode for the following set of data (students' scores on a test) by using the online Mean, Median, Mode Calculator.

43, 67, 82, 45, 95, 87, 93, 95, 98, 87, 66, 75, 82, 77, 82, 90, 12, 90, 82

Which of them is the best measure of central tendency? Explain.