

Name : \_\_\_\_\_

L3S1

## Mean Absolute Deviation

Find the mean absolute deviation of each set of data. Round your answer to two decimal places.

1) 21.3, 11.5, 51.6, 35, 18.8, 49

Data	Mean	Difference	Absolute Value
Sum			

Mean Absolute Deviation = \_\_\_\_\_

2) 63.4, 25.5, 25.9, 10.2

Data	Mean	Difference	Absolute Value
Sum			

Mean Absolute Deviation = \_\_\_\_\_

3) 63.5, 36.7, 27.2, 50.3, 21.5

Data	Mean	Difference	Absolute Value
Sum			

Mean Absolute Deviation = \_\_\_\_\_

4) 31.6, 34.5, 29.8, 12.1

Data	Mean	Difference	Absolute Value
Sum			

Mean Absolute Deviation = \_\_\_\_\_

5) The below table shows the margin of increase in sales in an automobile shop compared to the previous year. Find the mean absolute deviation of the growth in sales as displayed herein.

Increase in automobile sales as reflected during the new year (in %)				
Cars	Motorbikes	Jeeps	Trucks	Tractors
7.8	6.2	3.3	2.6	1.4

Mean = \_\_\_\_\_

Mean Absolute Deviation = \_\_\_\_\_

Name : \_\_\_\_\_

**Answer key**

L3S1

**Mean Absolute Deviation**

Find the mean absolute deviation of each set of data. Round your answer to two decimal places.

1) 21.3, 11.5, 51.6, 35, 18.8, 49

Data	Mean	Difference	Absolute Value
11.5	31.2	-19.7	19.7
18.8	31.2	-12.4	12.4
21.3	31.2	-9.9	9.9
35	31.2	3.8	3.8
49	31.2	17.8	17.8
51.6	31.2	20.4	20.4
Sum			84

Mean Absolute Deviation = 14

2) 63.4, 25.5, 25.9, 10.2

Data	Mean	Difference	Absolute Value
10.2	31.25	-21.05	21.05
25.5	31.25	-5.75	5.75
25.9	31.25	-5.35	5.35
63.4	31.25	32.15	32.15
Sum			64.3

Mean Absolute Deviation = 16.08

3) 63.5, 36.7, 27.2, 50.3, 21.5

Data	Mean	Difference	Absolute Value
21.5	39.84	-18.34	18.34
27.2	39.84	-12.64	12.64
36.7	39.84	-3.14	3.14
50.3	39.84	10.46	10.46
63.5	39.84	23.66	23.66
Sum			68.24

Mean Absolute Deviation = 13.65

4) 31.6, 34.5, 29.8, 12.1

Data	Mean	Difference	Absolute Value
12.1	27	-14.9	14.9
29.8	27	2.8	2.8
31.6	27	4.6	4.6
34.5	27	7.5	7.5
Sum			29.8

Mean Absolute Deviation = 7.45

5) The below table shows the margin of increase in sales in an automobile shop compared to the previous year. Find the mean absolute deviation of the growth in sales as displayed herein.

Increase in automobile sales as reflected during the new year (in %)				
Cars	Motorbikes	Jeeps	Trucks	Tractors
7.8	6.2	3.3	2.6	1.4

Mean = 4.26

Mean Absolute Deviation = 2.19