

Name : _____

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 = _____

1. The weights of several adult guinea pigs in a pet store are:
33, 39, 42, 33, 39, 31, 32 and 37 ounces.
Find the mean absolute deviation. _____

Describe what the mean absolute deviation tells you about the data.

2. The table below shows Leland's bowling scores during two different months of his bowling league.
Find the mean absolute deviation for each set of data.
Round to the nearest hundredth.

| Leland's Bowling Scores | | | | | |
|-------------------------|-----|-----|-------|-----|-----|
| September | | | April | | |
| 98 | 103 | 116 | 112 | 118 | 145 |
| 95 | 90 | 118 | 130 | 125 | 105 |
| 101 | 121 | 94 | 118 | 122 | 150 |

In which month was Leland's scores more consistent? _____

3. Bob and Sue were two students who were having a friendly argument about who had been more consistent in their math quiz grades.

Bob's scores: 80, 90, 95, 85, 70

Sue's scores: 70, 75, 90, 100, 95

Find the mean absolute deviation for each of them and then answer the two questions:

Bob's mean: _____

Sue's mean: _____

Bob's MAD: _____

Sue's MAD: _____

Who's doing better on the quizzes? _____

Who's more consistent in their quiz scores? _____