

Unit 07-03 - Sample Quiz: Measures of Spread**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- _____ 1. Two different gas stations below list the price per gallon of gasoline over 5 days.

Day	Gas Plus	Go Station
Monday	\$2.50	\$2.48
Tuesday	\$2.51	\$2.56
Wednesday	\$2.52	\$2.46
Thursday	\$2.57	\$2.59
Friday	\$2.55	\$2.44

Which gas station has more variation based on their **range**?

- 'Gas Plus' has more variation
 - 'Go Station' has more variation
 - The two gas stations have the same variation
 - There isn't enough information to determine the variation.
- _____ 2. Consider the following data set:

20, 22, 31, 37, 39, 40

How would the **range** be affected if the data point 28 was added to the data set?

- The range would decrease by 0.5.
 - The range would decrease by 3.
 - The range would increase by 8.
 - There would be no effect on the range.
- _____ 3. Consider the following unorganized data set:

12, 15, 8, 29, 30, 27, 19, 12

What is the **range** of the data set?

- 7.25
- 12
- 19
- 22

_____ 4. Given a data set has the following summary statistics:

Minimum	20
Quartile 1 (Q_1)	24
Median	25
Quartile 3 (Q_3)	28
Maximum	30

What is the **Interquartile Range (IQR)** of the data set?

- a. 2
- b. 4
- c. 10
- d. 25.4

_____ 5. Consider the data set:

60, 44, 56, 52, 48

Data Points (x)	Mean (\bar{x})	Deviation
60	52	8
44	52	-8
56	52	4
52	52	0
48	52	-4

What is the **mean absolute deviation** of the data set (use the table for help)?

- a. 0
- b. 4
- c. 4.8
- d. 8

_____ 6. Consider the data set:

5, 9, 11, 17, 23

The data set has a mean deviation of 5.6. If you were to **add 2** to every number in the data set and recalculate the mean deviation, what would it be?

- a. 5.6
- b. 7.6
- c. 11.2
- d. 12.1

_____ 7. Which of the following dot plots would most likely have the highest **standard deviation**?



