January 28, 2020

1. 15 Min for HW
2. Turn in HW packet
3. CALC
4. Notes - Warm Up

Warm UP

What does deviation mean? THINK - if you deviate from the plan, what are you doing?

Go away from the avg.

Notes

Standard Deviation is a measure of spread.

What does it tell us?

ON AVERAGE, HOW FAR EACH DATA VALUE IS FROM THE MEAN.

Small standard deviation, low variability.

high standard deviation, high variability.

Calculator Demo

Do you know how to enter data in your calculator? If so,

enter the following set:

93 93 91 91 72 96 95 73 82 45

88 80 86 81 78 86 89 92 91 98 85

min = 45 Q_1 = 80.5 Q_2 = 88 Q_3 = 92.5 max = 98

Mean = 85 St. Deviation = 11.6

Transforming Data

Your teacher is considering curving the last quiz scores.

Scores:

93 93 87.5 91 72 96 95 93.5 73 82 45

1. Calculate the mean, standard deviation, and 5 number summary. $\bar{x} = 83.7$ $S_x = 15.4$

Min: 45 Q_1: 73 Q_2: 91 Q_3: 93.5 Max: 96

2. Curve each original test score by 5 points.

New Scores:

98 98 92.5 96 77 101 100 98.5 78 87 50

3. Calculate the mean, standard deviation, and 5 number summary of the new scores. $\bar{x} = 88.7$ Sx = 15.4

Min: 50 Q1:78 Q2: 96 Q3: 98.5 Max: 101

4. Question: What happened to our numerical measures after adding 5 to each score?

5. Your teacher has 3 favorite students. Instead of giving everyone 5 points, she gives only her favorite students 10 points. Will this change our numerical measures? Is there a pattern like before?

DIRECTIONS:

Partner 1:_____ Partner 2:_____

Partner 1 will text first, Partner 2 will time. Then switch.

MISSION: Text the following phrase including punctuation in the fastest time with ZERO mistakes. If you make a mistake you must start again. You will complete a total of 3 trials. (Each trial must be done perfectly without any mistakes to count.)

Standard deviation is a measure of spread. It shows us the average distance each data point is from the mean. It is so awesome that my teacher, [redacted], taught us about this!

Mr. Thornton

Record your time in seconds in the chart below. Round to the nearest second.

1:13
↓
73 sec.

Partner 1	
Trial Number	**Time (seconds)**
1	
2	
3	

Partner 2	
Trial Number	**Time (seconds)**
1	
2	
3	