

**PROBLEM-OF-THE-DAY: ALGEBRA 1**  
**WEEK:** August 20 to August 24      **DAY:** Monday

**RISD Objective:** Given a set of data, students will find the measures of central tendency and the range of the data.

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**PROBLEM #1**

The following table shows the highest and lowest record temperatures ever observed in each town in Indiana.

Town	Highest Temp. (°F)	Lowest Temp. (°F)
Angola	113	-34
Boonville	109	-41
Loogootee	111	-39
Mt. Vernon	111	-43
Princeton	107	-35
Sullivan	108	-29
Tennyson	110	-35

Which town has the greatest range of extreme temperatures?  
Explain your work.

**MODEL SOLUTION #1**

To find the range, you must subtract the lowest number from the highest number. I will do that for each town:

$$\text{Angola } 113 - (-34) = 147$$

$$\text{Boonville } 109 - (-41) = 150$$

$$\text{Loogootee } 111 - (-39) = 150$$

$$\text{Mt. Vernon } 111 - (-43) = 154$$

$$\text{Princeton } 107 - (-35) = 142$$

$$\text{Sullivan } 108 - (-29) = 137$$

$$\text{Tennyson } 110 - (-35) = 145$$

It is easy to see that Mt. Vernon, with a range of 154°F has the greatest range of extreme temperatures.