Name _____

Date _____

Measures of Central Tendency & Measures of Dispersion

A. Formulas and Definitions:

1. A student has exam scores of: 50, 55, 65, 80, 80, and 90.
   a) Define, identify symbol if there is one, and calculate the following central tendencies:

      Mean –

      Median –

      Mode –

   b) Define and calculate the following measures of dispersion:

      Range –

      Standard Deviation –

List of Data	Data value subtract Mean	Difference Squared
	Sum of Squares	

$$\sigma = \sqrt{\frac{sum\ of\ squares}{number\ of\ data}}$$

2. A student has exam scores of: 60, 64, 66, 70, and 72.

a) Calculate the following central tendencies:

Mean –

Median –

Mode –

b) Calculate the following measures of dispersion:

Range –

Standard Deviation –

B. Technology:

A student has exam scores of: 50, 55, 65, 80, 80, and 90.

Enter the data into $\mathbf{L_1}$

STAT → CALC → 1-Var Stats

On your screen… **1-Var Stats $\mathbf{L_1}$** … use $\mathbf{L_1}$ to let the calculator know where your data is.

Copy out the screen… identify what all the values represent.

A student has exam scores of: 60, 64, 66, 70, and 72.

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