Calculating Standard Deviations

TI-Nspire™   Student Worksheet   Name _____

Directions: Follow the directions in the activity, ***Calc Stand Dev***, on your TI-Nspire and from your teacher. Use the questions on this worksheet to help you through the process of calculating the Standard Deviation of the given data. Answer the questions as you go.

Height (in feet) of tall buildings in Philadelphia, PA						
548	375	490	435	405	364	435
848	375	492	390	792	400	482
500	700	475	384	400	572	450
490	491	739	412	492	945	572

1. Open the document ***Calc Stand Dev*** on your handheld.

2. Follow the directions from your teacher as to how and where to input the given data.

3. Fill in the following blanks after the "by hand" calculations:

    Sums=_____   Variance=_____   sx= _____

4. Fill in the following blanks after the OneVar calculation: These values can be found in cells C5, C6, and C13 respectively.

    sx=_____   σx=_____   SSX= _____

5. What does the SSX mean? (where have you seen this number before? Hint. See question 3)

6. After you have completed the activity, answer the following questions.

7. Which method did you like better and why?

8. Does one method have an advantage over the other, How?

9. Is there a time when one method would be better to use than the other?