Getting Started with Statistics

But What Do You Mean? Name _____ ID: 8519 Class 1.1 1.2 1.3 1.4 RAD APPRX REAL In this activity, you will explore: The mean The weighted mean BUT WHAT DO YOU MEAN? Open the file StatAct02_WhatDoYouMean_EN.tns Statistics on your handheld and follow along with your teacher Calculating means to work through the activity. Use this document as a and weighted means reference and to record your answers. Problem 1 – The Mean of a Few Numbers Consider this set of numbers: 5, 14, 18, 32, 16 Find the average by dividing the sum of all of the numbers by the total number of numbers on page 1.3. • On page 1.5, find the mean using the mean command. The set of numbers should be enclosed in braces, which is enclosed in parentheses. • Use a formula in the spreadsheet on page 1.7. Remember that all formulas must begin with an equal sign. Play the mean game on page 1.9. In your own words, can you give a clear description of what the mean of a set of numbers is (and not just how to find it)? On page 1.12, find the mean of 7, 8, 2.2, 3, 1.9, and 12. Use each of three tools provided. What is the mean of this set of numbers? **Problem 2 – The Mean of Many Numbers** Read through and discuss pages 2.1 and 2.2 with your teacher. Think about how you might go about finding the mean of the test scores below: 2 got a 20, 5 got a 19, 4 got an 18, 4 got a 17, 2 got a 16, 2 got a 14, 1 got a 12 On page 2.3, list the frequencies and follow your teacher's directions

for finding the mean. What is the mean?



Use the mean command on page 2.4 to find the mean of the set of numbers. The scores should be listed as the first set, in braces, and the frequencies should be listed as the second set, in another set of braces. Both sets are enclosed in parentheses.
On page 2.6, find the mean for the scores below. Use both ways discussed.
11 students got a 5, 8 students got a 4, and 10 students got a 3
What is the mean?
Problem 3 – The Weighted Mean
Read through and discuss pages 3.1 and 3.2 with your teacher. Use both of the applications on page 3.3 to find the mean.
Quizzes worth 10% each and test worth 50% Quizzes: 56, 72, 85, 78, and 67; Test: 92
What is the mean?
On page 3.6, find the mean for the scores below. Use both ways discussed.
First three tests worth 15% each and last test worth 55% First three tests: 95, 90, and 98; Last test: 60
What is the mean?
Think About It: When will a weighted mean be higher than the regular mean? When will it be lower? Explain.
Extension
Read the information on pages 4.1 through 4.3.
 Use the definitions to find each type of mean for the following data set.
3, 6, 9, 4, 4, and 5
Harmonic mean: Quadratic mean:
Can you find other examples of means and where they occur?