

Hand In – Measures of Central Tendency

- The weekly salaries of six employees at McDonalds are \$140, \$220, \$90, \$180, \$140, \$200. For these six salaries, find: (a) the mean (b) the median (c) the mode
- Andy has grades of 84, 65, and 76 on three math tests. What grade must he obtain on the next test to have an average of exactly 80 for the four tests?
- Test scores for a class of 20 students are as follows:
93, 84, 97, 98, 100, 78, 86, 100, 85, 92, 72, 55, 91, 90, 75, 94, 83, 60, 81, 95

Test Scores	Frequency
91-100	
81-90	
71-80	
61-70	
51-60	

- Copy and complete the table shown at the left.
 - Find the modal interval.
The "modal interval" is the interval containing the greatest frequency. It is not the mode.
 - Find the interval that contains the median.
- A storeowner kept a tally of the sizes of suits purchased in her store. Which measure of central tendency should the storeowner use to describe the average size suit sold?
 - A tally was made of the number of times each color of crayon was used by a kindergarten class. Which measure of central tendency should the teacher use to determine which color is the favorite color of her class?
 - The science test grades are posted. The class did very well. All students taking the test scored over 75. Unfortunately, 4 students were absent for the test and the computer listed their scores as 0 until the test is taken. Assuming that no score repeated more times than the 0's, what measure of central tendency would most likely give the the best representation of this data?

5. In January of 2006, your family moved to a tropical climate. For the year that followed, you recorded the number of rainy days that occurred each month. Your data contained 14, 14, 10, 12, 11, 13, 11, 11, 14, 10, 13, 8.
- Find the mean, mode, median and range for your data set of rainy days.
 - If the number of rainy days doubles each month in the year 2007, what will be the mean, mode, median and range for the 2007 data?
 - If, instead, there are three more rainy days per month in the year 2007, what will be the mean, mode, median and range for the 2007 data?