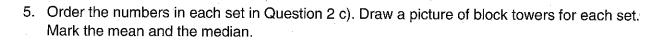
1.	To find the median of a data set, put the data in order. Count from either end until you reach the middle					
	2 3 6 7 1	1 2 3 (	7 9 11 15			
	The median is 6.		ulf way between 7 and 9. median is 8.			
	Circle the middle number or numb	ers. Find the median.				
. •	a) 2 4 6 7 8 b) 2 3	3 8 c) 7 9 13 14 26	d) 3 4 6 10 11 17			
2.	Find the mean and the median (and the ranges below and above) of the sets of data.					
	a) 2 2 3 3 4 16	b) 1 16 15 2 21	c) 2 1 4 6 7			
	Median: Mean:	Median: Mean:	Median: Mean:			
	Range below the median:	Range below the median:	Range below the median:			
	Range above the median:	Range above the median:	Range above the median:			
	Range below the mean:	Range below the mean:	Range below the mean:			
	Range above the mean:	Range above the mean:	Range above the mean:			
3.	Find the mean and the median of the data sets.					
	a) 2 3 4 5 6	b) 5 6 9 11 12	c) 1 2 13 19 7 9			
	Median: Mean:	Median: Mean:	Median: Mean:			
	Change one value in the set to make the mean larger than the median.					
	Median: Mean:	Median: Mean:	Median: Mean:			
	Change one value in the set to make the mean larger than the median.					
	Median: Mean:	Median: Mean:	Median: Mean:			
	4. Describe the data in each set in	n Question 2. Is it spread out in the	same way above and below			





the median?



## Answer the following questions in your notebook.

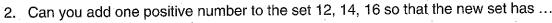
1. The class marks on a test were:

							, 65		
65	73	71	75	70	95	97	65	72	86

- a) Create a stem and leaf plot for the data.
- b) The **mode** of a data set is the value that occurs most often. Find the range, mode, median, and mean of the data. Which value is hardest to read from the stem and leaf plot? Explain.
- c) Describe the data. Is it spread out more...
  - i) above or below the mean?

- ii) above or below the median?
- d) Tom's mark was 75.
   Which of the following statements that he told his parents were true?
   Explain using mean, mode, median or range.
  - i) I did better that half of the class!
  - ii) My grade is higher than the average!
  - iii) A lot of students had the same grade as me.
  - iv) Only 6 students did better than me!
  - v) 75 is the most common mark.

What do you think of Tom's mark? Discuss.



Median:	10?	13?	14?	15?	20?
Mean:	10?	14?	20?	•	
Mode:	10?	12?	14?	20?	

3. Ron counted the number of floors of the buildings in his block:

- a) Find the mean, median and modes of the set of data.
- b) The five story building is replaced by a skyscraper of 50 floors. Find the mean, median and the mode of the new data set.
- c) The number 50 is much greater than others. (It is called **an outlier**).
  Which value changed the most when you added the outlier, the mean, or the median?
- 4. Find a set of data, not all values equal, so that the range below the median is 0. Find the mean and the mode.

