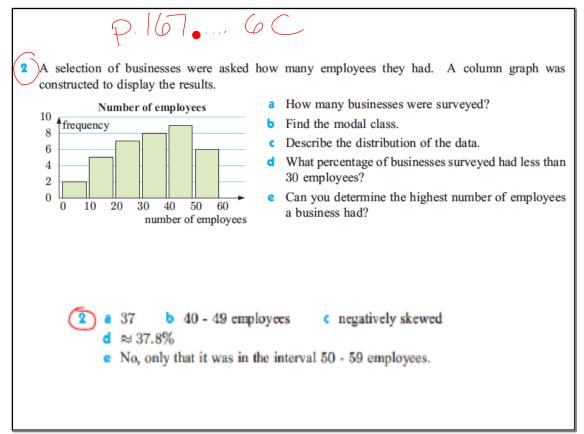
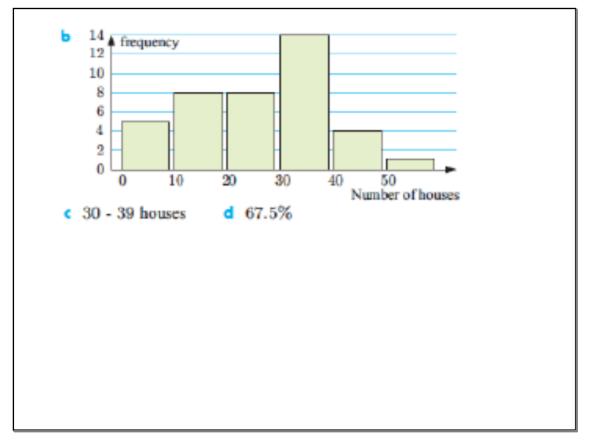


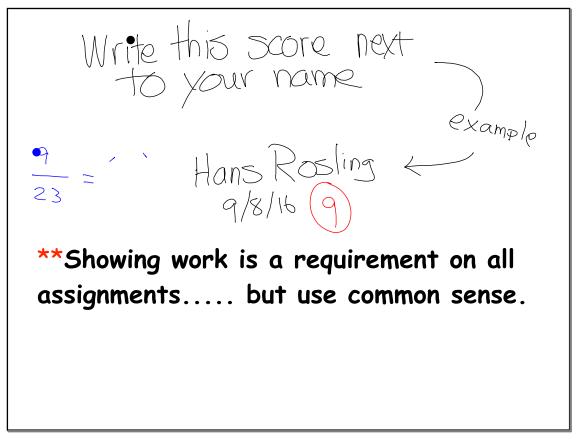
### Day 3 Notes from Class



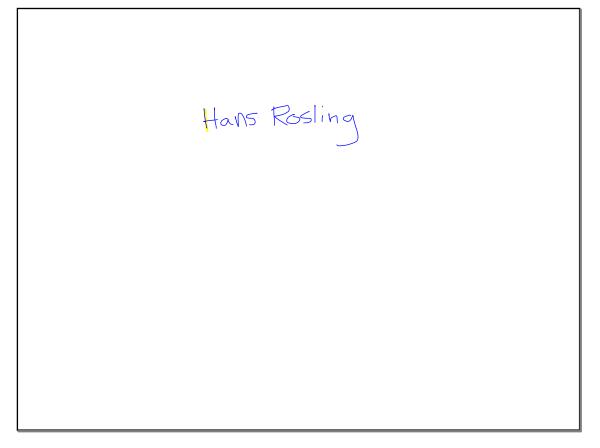
	> 1/-	~ ~										
1 A		1 (										
A city council	does a su	arvey of the r	umber	of ho	ouses	per s	street	in a	subu	rb.		
	42 15	20 6 3	4 19	8	5	11	38	56	<b>23</b>	<b>24</b>	24	
	35 47		9 18		44	25	6		35	28	12	
	27 32	36 34 3	<b>60</b> 40	32	12	17	6	37	32			
a Construct	a freque	ncy table for	this da	ta usii	ng cla	iss ir	nterva	ls 0	- 9,	10 -	19,, 5	50 - 59.
b Hence dra	w a colu	mn graph to	display	the d	lata.							
• Write dow	n the mo	dal class.										
d What perc	entage o	f the streets c	ontain	at lea	st 20	hou	ses?			1		
1	U											
a	Numb	er of houses		Tally	2	F	nequ	ency	•			
		0 - 9	H	r			5			8		
	1	0 - 19	₩	111		$\square$	8			Ŷ		
	2	0 - 29	H	r III		$\square$	8			Ϊ.		
		0 - 39	1	t JHT		$\square$	14					
		0 - 49	111			+	4	+		Γ	7	
		0 - 59	-			+	1	+	-			
		0-08	-	The	,		1		-	4	9 10-19	20-
				Tota	l		41			0-		

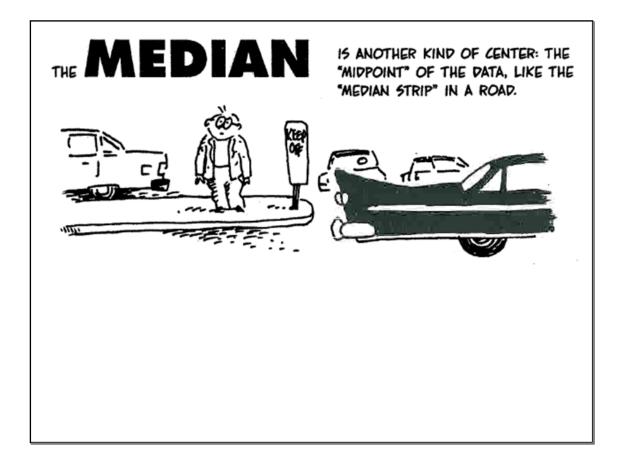


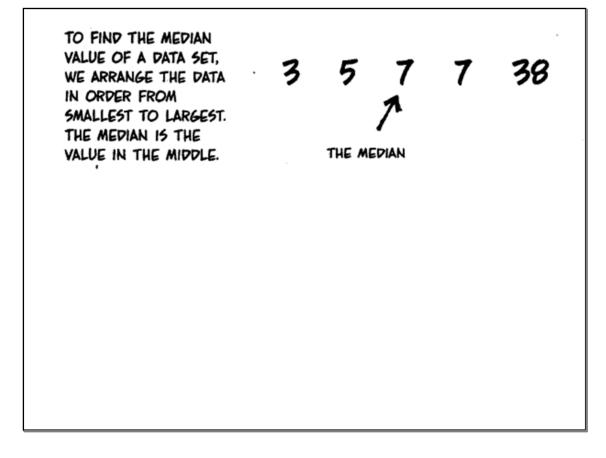
EXERCISE 6D P. 68 . 6D		
1 A frequency table for the heights of a volleyball squad is given	Height (H cm)	Frequency
alongside.	$170 \leq H < 175$	1
a Explain why 'height' is a continuous variable.	$175 \leqslant H < 180$	8
<b>b</b> Construct a frequency histogram for the data. Carefully	$180\leqslant H<185$	9
mark and label the axes, and include a heading for the	$185 \leqslant H < 190$	11
graph.	$190\leqslant H<195$	9
• What is the modal class? Explain what this means.	$195 \leqslant H < 200$	3
d Describe the distribution of the data.	$200 \leqslant H < 205$	3
<ul> <li>a Height is measured on a continuous scale.</li> <li>b Heights of a volleyball squad</li> <li>12 10 10 10 10 10 10 10 10 10 10</li></ul>		hat i

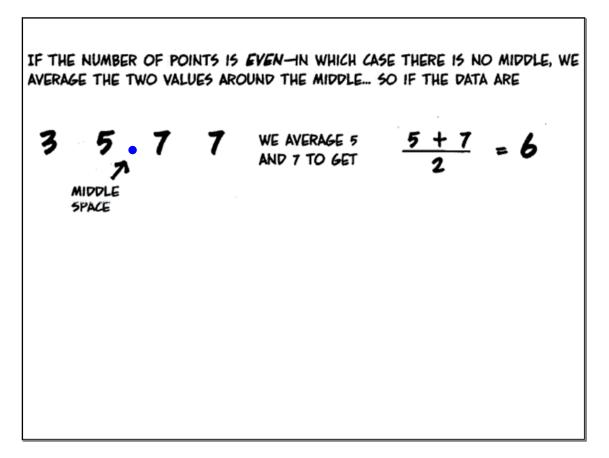


Today Measures of Center Mean, Median, Mode which one is best?







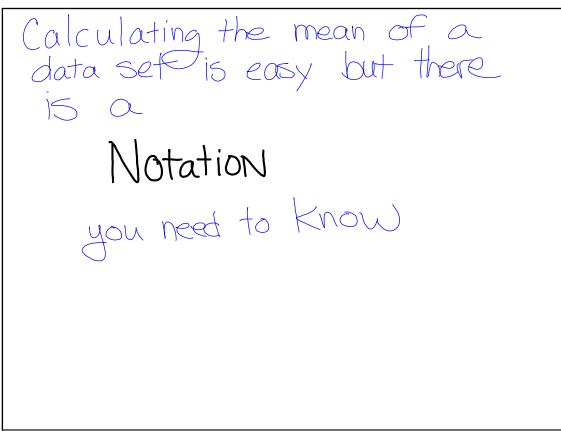


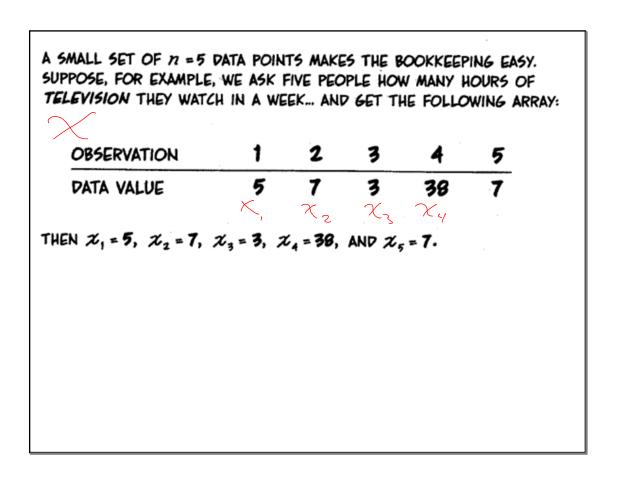
Height (H cm)	Frequency
$170 \leqslant H < 175$	1
$175 \leqslant H < 180$	8
$180 \leqslant H < 185$	9
$185 \leqslant H < 190$	11
$190\leqslant H<195$	9
$195 \leqslant H < 200$	3
$200 \leqslant H < 205$	3

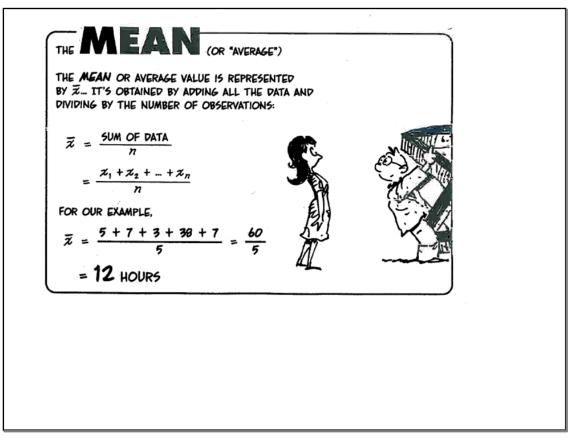
Mode

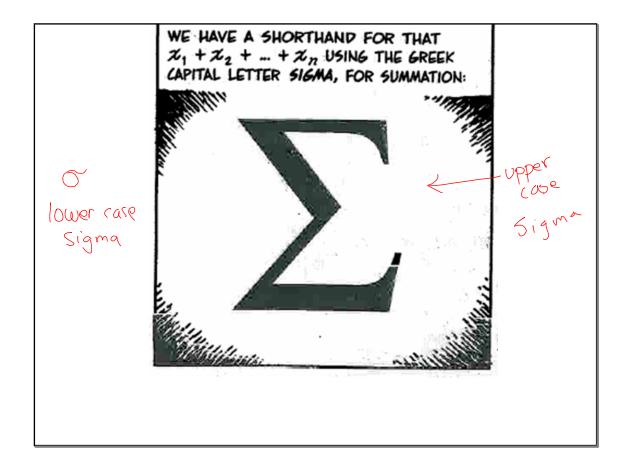
Modal Class

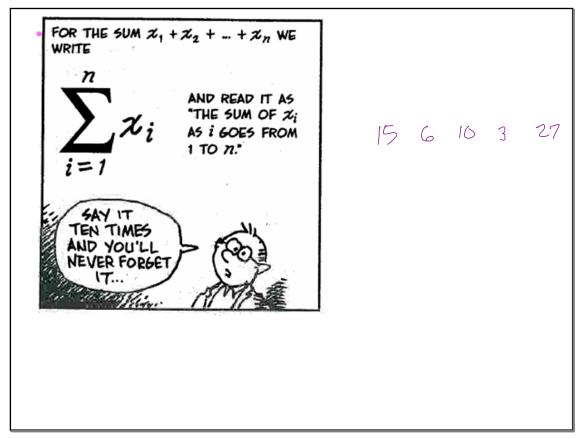
So Now use your GDC to calculate the Median and the Mean



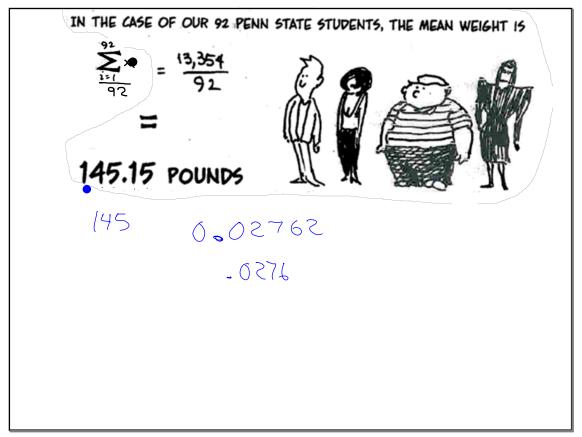




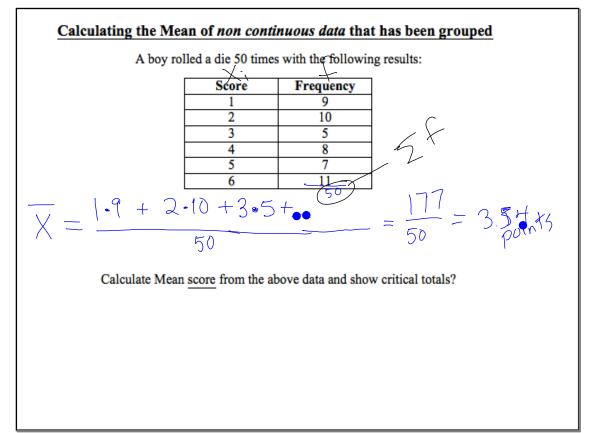




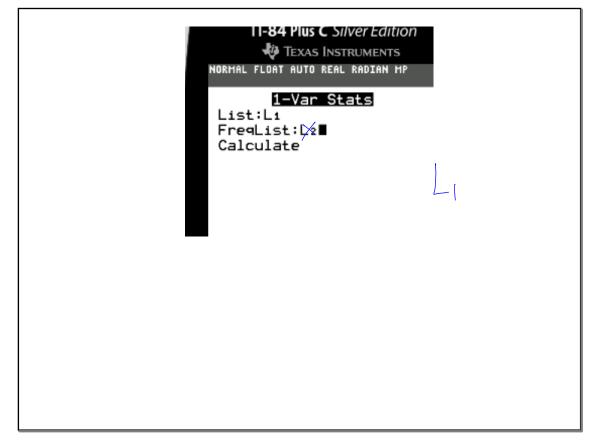
Mean 
$$x_i$$
  
 $X = \frac{x_i}{\sum_{i=1}^{n} x_i \cdot f_i}$   
 $x_i + x_2 + x_3 \cdot f_i$   
 $x_i \cdot f_i$   
 $x_i \cdot f_i$   
 $x_i \cdot f_i$   
 $x_i \cdot f_i$ 

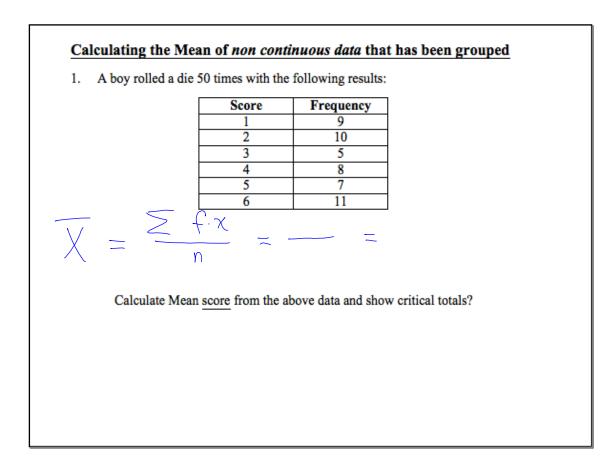


JUT Sometimes data is repeated and grouped and a Variation of the formula is needed Pick up the handout



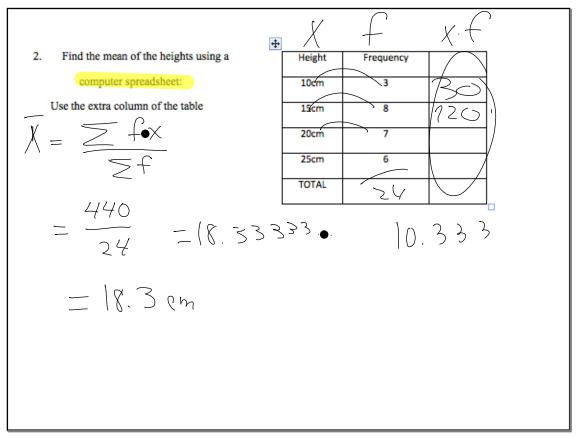
Now use the GDC Lists as a spreadsheet. everyone needs to be able to do this.





# Day 3 Notes from Class

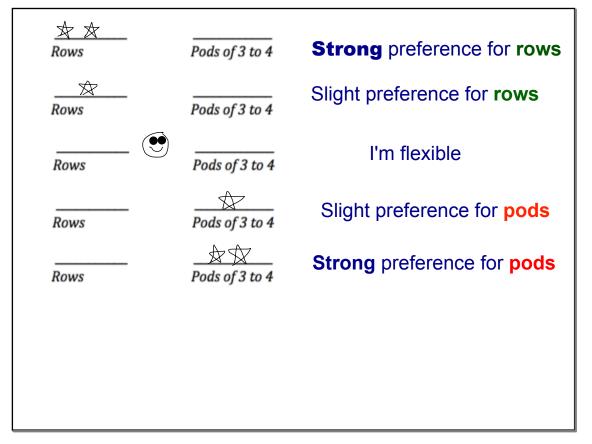
## September 08, 2017

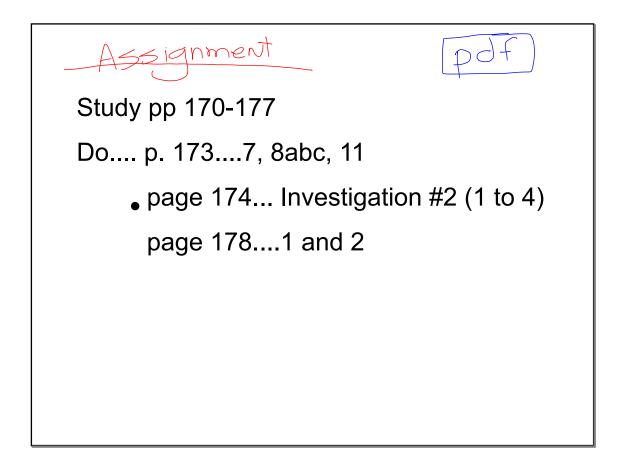


2. Find the mean of the heights using a	++ Height	Frequency	
computer spreadsheet:	10cm	3	
Use the extra column of the table	15cm	8	
	20cm	7	
	25cm	6	
	TOTAL		

Score	Frequenc
1	9
2	10
3	5
4	8
5	7
6	11

Brain Break





### **Day 3 Notes from Class**

### September 08, 2017

AP Statistics Tutorial

#### Exploring Data

- The basics
- Charts and graphs
- Regression
- Categorical data
- Planning a Study
- Surveys
- Experiments

#### Anticipating Patterns

### **AP Statistics Tutorial**

Welcome to Stat Trek's free, online Advanced Placement (AP) Statistics tutorial. It has been carefully developed to help you master the Advanced Placement Statistics Examination. > Begin lesson 1

#### About the Tutorial

This tutorial provides accurate and complete coverage of the AP Statistics curriculum. Specifically, the AP Statistics curriculum and this tutorial cover the following topics:

- Exploring data. Using graphical and numerical techniques to study patterns of data. Emphasizes interpreting graphical information and descriptive statistics.
- Sampling and experimentation. How to plan and conduct a study. Focuses on clarifying

### AP Statistics Tutorial

#### Exploring Data

- The basics
- Charts and graphs
- Regression
- Categorical data

#### Planning a Study

- Surveys
- Experiments

#### Anticipating Patterns

Probability

# Planning a Study

- Surveys
  - Data collection
  - Sampling methods
  - Bias in surveys