

Starter 21 MAR 2017  
**Quiz Today Over This**  
 Find the mean, median, mode and range of the following: {15, 16, 13, 14, 12, 15, 18, 11, 15, 12}

mean → add + ÷ =  $\frac{141}{10} = 14.1$   
 median → middle  $\frac{14+15}{2} = 14.5$   
 mode → most **15**  
 range → large - small  $18 - 11 = 7$

11, 12, 12, 13, 14, 15, 15, 15, 16, 18

### Measures of Central Tendency

Computing the mean from a frequency (f) distribution table

$$\bar{X} = \frac{\sum(x \cdot f)}{\sum f}$$

Annotations: mean (pointing to  $\bar{X}$ ), sum (pointing to  $\sum(x \cdot f)$ ), frequency (pointing to  $f$ ), add. (pointing to  $\sum f$ )

### Measures of Central Tendency

frequency table

x	f	x·f
10	1	10
11	2	22
12	5	60
13	7	
14	9	
15	6	
16	3	
17	1	
18	1	
Totals	$\sum 35$	$\sum$

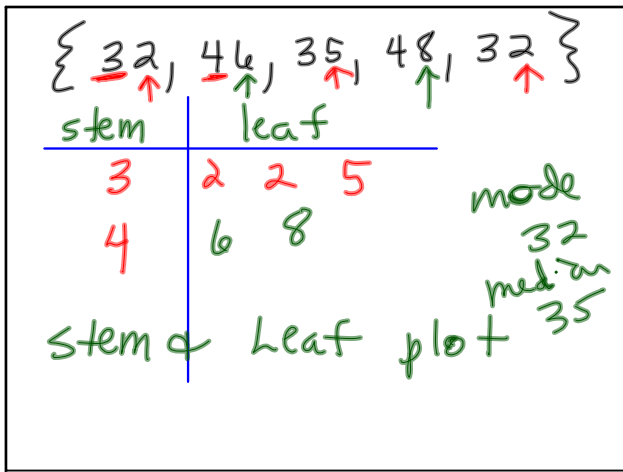
Annotations: sum (pointing to  $\sum$  in Totals row)

$$\bar{X} = \frac{\sum(x \cdot f)}{\sum f}$$

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### Stem and Leaf Plot

stem	leaf
1	0 1 1 2 2 2 2



① frequency table

x	2	3	5	7	8				
f	1	2	3	2	1				

mean = \_\_\_\_\_ mode = \_\_\_\_\_

median = \_\_\_\_\_