Name: _____   Date: _____

Learning Goal 9.2	I can demonstrate an understanding of data analysis.

Let's take some measurements!

Name	Height (in cm)	Shoe Size (in mens)
Jessie	64.5	5
Yoyo		
Kasper	73	9.5
Astrud	58	4.5
Jessica H.	65.5	4
Stella	68.5	5.5
Precious	62	4.5
Muhammed	62.5	9
Maliyah	65	9
Helena		
Jaeda	66	4.5
Sienna	64	3.5
Sophia	65	4
Hazel	59	4.5
Binish	64	3.5
Shiloh	62	3.5
Vera	61	5.5
Jessica Y.	64.5	4

In excel you can   – sort

= average (   )

= median (   )

= mode (   )

Assignment   Handout   Quiz Next Day!

average — add all entries together and divide by the number of entries.

What is the **mean** height of the students in this class? What is the **mean** shoe size of students in this class?

$$\overline{h} = \frac{64.5 + 73 + 58 + 65.5 + 68.5 + 62 + 62.5 + 65 + 66 + 64 + 65 + 59 + 64 + 62 + 61 + 64.5}{16}$$

$$= \frac{1024.5}{16}$$

$$= 64 \text{ inches}$$

What is the **median** height of students in this class? What is the **median** shoe size of students in this class?

middle value, or the average of the middle values

58 59 61 62 62 62.5 64 64 64.5 64.5 65 65 65.5 66 68.5 73

$$\text{median} = \frac{64 + 64.5}{2} = 64.25 \text{ inches}$$

What is the **mode** of the heights of the students in this class? What is the **mode** of the shoe sizes of the students in this class?

most frequent value(s)

mode: 62, 64, 64.5 and 65 inches

What is the **range** of heights of students in this class? What is the **range** of shoe sizes of students in this class?

the biggest value — smallest value

range: 73 − 58 = 15 inches

	Height	Shoe Size
Mean		
Median		
Mode		