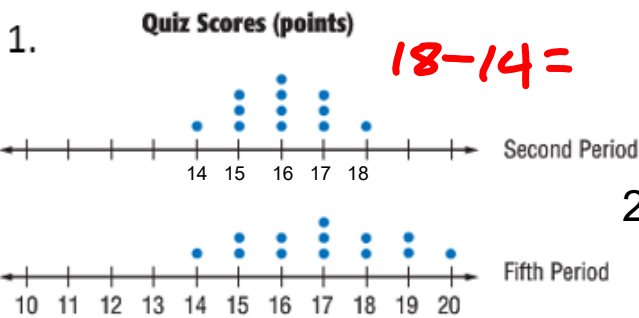


You need out your warm up, HW, & Agenda

Homework: Comparing Practice. Quiz Friday!!!

Warm Up: Use the dot plot to answer the following



1) Find medians for both classes

2nd 5th
16 17

2) Find the range for both classes

2nd 5th
4 6

3) Which set of data looks more spread?

5th

Comparing Data

Measures of Center:

The measures of center are **mean, median, mode**

Measures of Variation:

The measures of variation are **Range, IQR, MAD**

Variability/ Consistency:

close to/or the same
"clumped together"

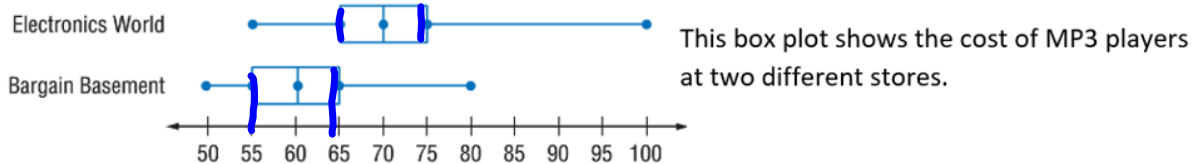
Smaller Range/
IQR

When comparing **Box Plots**...

Comparing the **Centers**: Find the **Medians**

Compare the **Variability**: Find the **IQRs**

Example 1:



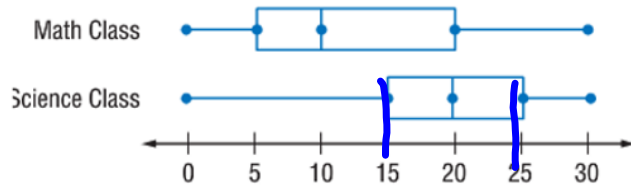
Compare the measures of center (medians) & the measures of variation (IQR)

EW Median: 70
BB Median: 60

EW IQR: $75 - 65 = 10$
BB IQR: $65 - 55 = 10$

Now write a sentence about each:

- The Median cost at EW is higher by \$10.
- The IQR/variability is the same



This box and whisker shows how many times students in her science and math classes.

Math Median: 10
 Science Median: 20

Math IQR: 15 $20-5$
 Science IQR: 10 $25-15$

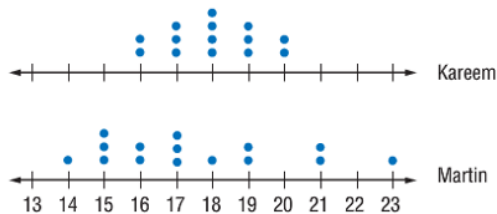
Now write a sentence about each:

- The science Median is higher.
- The math IQR is higher.

When comparing **Dot** Plots...

Comparing the Centers: Find the **Medians**

Comparing the Variability: Find the **Range**



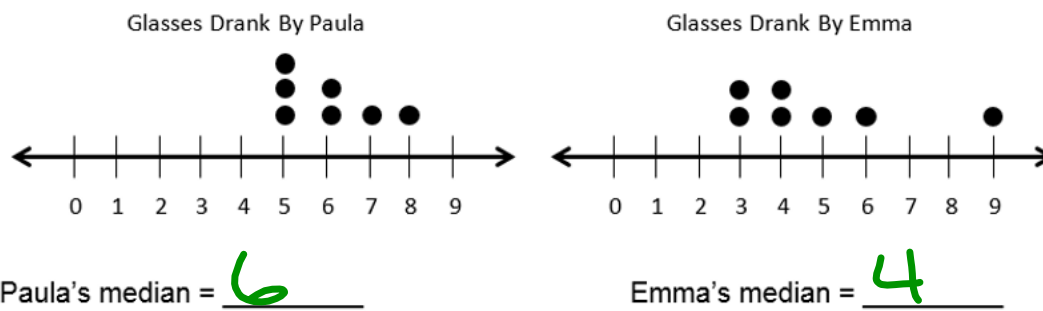
This data shows the number of texts sent by Kareem and Martin's

Kareem's Median: 18
 Martin's Median: 17

Kareem's Range: 4
 Martin's Range: 9

Now write a sentence comparing each:

- Kareem's median is higher
- Martin's Range is higher



How does the median number of glasses of water drank by Paula compare to the median number of glasses of water drank by Emma?

Paula's Range: $8-5=3$ Emma's Range: $9-3=6$

How does the range of range number of glasses of water drank by Paula compare to the range number of glasses of water drank by Emma?

Sit silently for the news



please