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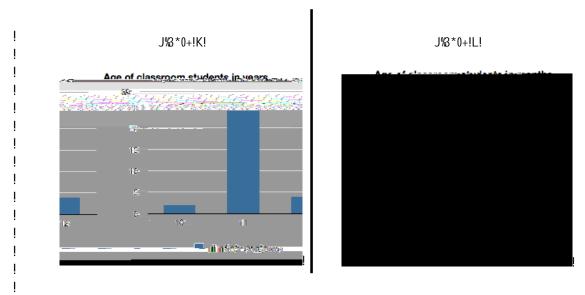
Data analysis is at work all around us...

- Internet advertising
- Billboard placement
- Store location
- Traffic flow and road construction
- Carbon footprint
- Cell phone plans and rates
- Insurance
- Assessment data

In order to get any meaning or value from data, we need to make sure we are asking a question that invites a certain amount of a ab in order to provide a measurable and comparable data.

For example, the question, "How old are the students in my class in terms of years?" may produce a graph as in figure A below. (Show the graph on overhead/projector)

Alternately, the question, "How old are the student in my class in terms of months?" may produce a graph as in figure B below. (Show the graph in a side-by-side comparison with figure A)



ASK: What do you notice when comparing the two graphs?

Sample Responses:

- The data in Figure B is more spread out.
- There are only three bars in Fig. A, and 13 bars on information in Fig. B.
- The same number of students are represented on both graphs but the data is more spread out in Fig. B
- There is a gap in the data in Fig. B

- Fig. A tells us most students are 11-years-old, Fig. B tells us a higher concentration (or cluster) of students are between 136 and 137 months old.
- Fig. A tells us students range from 10-12 years old in this class (range = 2 years), Fig. B tells us students range from 131-145 months old in this class (range = 14 months, a little more than one year).

ASK: What conclusions can we draw from the table in Fig. A? Fig. B?

Sample Responses:

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Begin debriefing the findings of each team's survey by moving around the room to each poster and facilitating the discussion. Below are some questions that can be asked of students during the analysis.

• What is the median of the data set? (Students will estimate the median, calculate the actual median, and compare

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How many students were surveyed?	
What is the actual mean of the data set?	
What is the actual median of the data set?	
Describe the shape of the data set?	
	!

Warm-Up

5.MD.2

<u>6.RP.5</u>

One rainy week, Ruben placed a bucket outside and measured the amount of rainfall it collected each day. Below is the data he recorded.

Sun	Μ	Tu	W	Th	F	Sat

The table above shows the amount of money raised during a fundraiser.

Who raised the least money?

Who raised the most money?

Warm-Up: Answer Key

5.MD.2