

Parent Letter

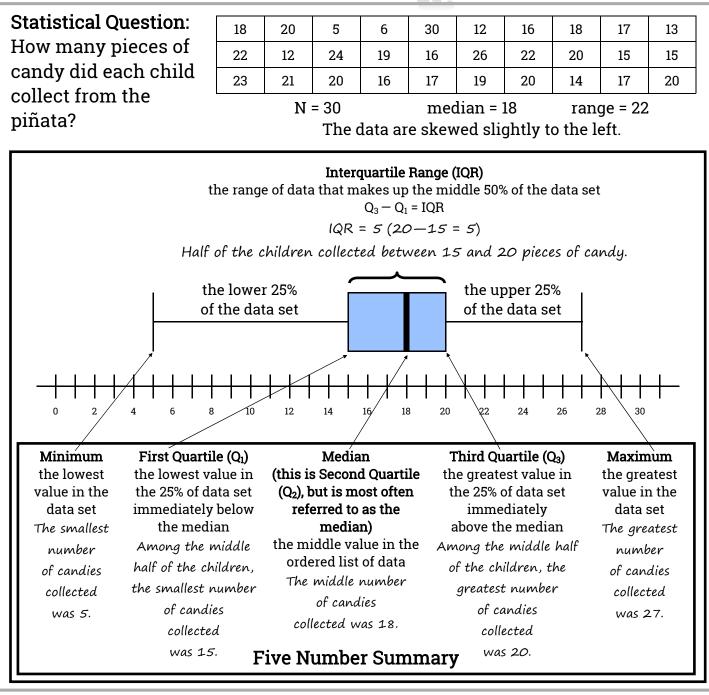
Dear Sixth Grade Families,

In Unit 8, students will work on the following sixth grade Common Core standards in the Statistics and Probability (SP) domain:

6.SP	Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.		
6.SP		Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.	
6.SP	Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.		
6.SP	4 Display numerical data in plots on	Display numerical data in plots on a number line, including dot plots, histograms, and box plots.	
6.SP	 Summarize numerical data sets in relation to their context, such as by: a. Reporting the number of observations. b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement. c. Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered. d. Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered. 		
 Unit 8 Concepts: Recognize statistical questions Describe the shape of a line plot Measures of center vs. measures of variability Display data on histograms and box plots Summarize numerical data sets Unit 8 Vocabulary: Statistics Statistical Questions Measures of Center: Mean, Median Measures of Variability: Range, Spread Dot Plot/Line Plot Histogram Box Plot (Box-and-Whisker Plot): Quartile, Interquartile Range (IQR) Mean Absolute Deviation (MAD) 		 Ask questions like these to help your child become a productive mathematical thinker: How do you know if a question is a statistical question? What are the different ways that the shape of a line plot can be described? What's the difference between data that's skewed to the right and data that's skewed to the left? How are measures of center different from measures of variability? Why do you think researchers find box plots (box-and-whisker plots) so useful? What's different about a histogram compared to a line plot? When would it be more useful? What does the interquartile range tell you? Why would you need to know that? What do Q1 and Q3 tell you on a box plot? 	
	Need a review? e your student login to Swun Math o access lesson support videos.	We encourage you to talk with your child daily about what was learned in math class. Thank you for your support!	







Mean Absolute Deviation (MAD) Lisa's math test scores: 82, 80, 80, 82 $\frac{(82+80+80+82)}{4} = \frac{324}{4} = 81$ 1. Find the mean. 82 83 79 80 2. Find the distance between each (81) (82 - 81) = 1(81 - 80) = 1(81 - 80) = 1(82 - 81) = 1 data point and the mean. The MAD is 1. This shows 3. Add the distances and divide by $\frac{(1+1+1+1)}{4} = \frac{4}{4} = 1$ that, in general, the scores the number of data points. are 1 point from the mean.

