3rd Grade Math

Module 6: Collecting and Displaying Data

Math Parent Letter

This document is created to give parents and students a better understanding of the math concepts found in Eureka Math (© 2013 Common Core, Inc.) that is also posted as the Engage New York material which is taught in the classroom. Module 6 of Eureka Math (Engage New York) covers Collecting and Displaying Data. This newsletter will discuss Module 6, Topic B.

Topic A. Generate and Analyze Measurement Data

Vocabulary Words

- Scale
- Bar Graph
- Survey
- Data
- Scaled Graph
- Line Plot

Scale	the relationship between the units you are using and their representation on the graph; the distance between marks
Bar Graph	a graph generated from data with bars used to represent a quantity
Survey	collecting data by asking questions and recording responses
Data	information
Scaled Graph	a graph in which the scale uses units with a value greater than 1
Line Plot	the display of data on a horizontal line

OBJECTIVE OF TOPIC B

1 Create ruler with 1-inch, 1/2-inch, and 1/4-inch intervals and generate measurement data.

2 Interpret measurement data from various line plots.

3 Represent measurement data with line plots.

4 Analyze data to problem solve.
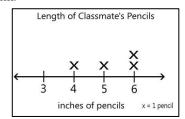
Focus Area– Topic B

Generate and Analyze Measurement Data

Students will have to measure different items and create a line plot. They will also have to analyze the data given on a line plot and answer questions about the information on the line plot.

Directions: Use a ruler and measure different classmates pencils to the nearest inch, $\frac{1}{2}$ inch, and $\frac{1}{4}$ inch.

Classmate	inch	$\frac{1}{2}$ inch	$\frac{1}{4}$ inch
My pencil	6	$5\frac{1}{2}$	$5\frac{2}{4}$
Kory's	5	$4\frac{1}{2}$	$4\frac{1}{4}$
Travis	6	6	$5\frac{3}{4}$
Casey	4	$3\frac{1}{2}$	$3\frac{3}{4}$

Students will take the measurements and create a line plot. The line plot below represents the measurements in the inch column.

Length of Classmate's Pencils
inches of pencils   x = 1 pencil

How many pencils were measured? How do you know? There are 4 pencils, I know because I counted the x's.

Tracy says there are more pencils that measure 4 inches than 6 inches. Is she right? Explain why. No she is not right, 1 pencil measured 4 inches and 2 pencils measured 6 inches.

Students will also gain an understanding that the more precise the measurements are the more the line plot changes. The line plot below shows the pencils measured to the $\frac{1}{2}$ inch.

Length of Classmate's Pencils
inches of pencils   x = 1 pencil