Name _____

Represent and Interpret Data

Topic 12 Standards

5.MD.B.2, 5.NF.A.2, 5.NF.B.6

See the front of the Student's Edition for complete standards.

Dear Family,

   Your student is learning to analyze and create line plots to display a set of data measurements in fractions of a unit. He or she will solve real-world problems using measurement data displayed in a line plot.
   Complete the following activity with your student to reinforce his or her ability to record data and create a line plot representing the data.
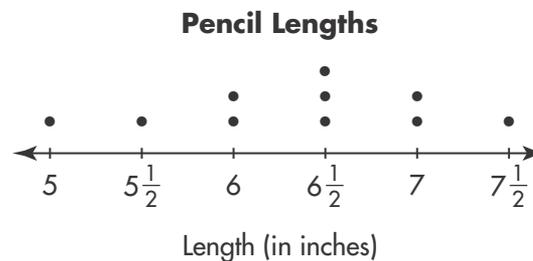

Pencil Length Data and Line Plot

Materials: 10 pencils of various lengths, inch ruler

Step 1 Have your child gather 10 used pencils.

Step 2 Have your child measure and record the length of each pencil to the nearest $\frac{1}{2}$ inch.

Step 3 Work together and use the data collected to complete a frequency table and a line plot such as those below.

Value	Tally	Frequency
5	I	1
$5\frac{1}{2}$	I	1
6	II	2
$6\frac{1}{2}$	III	3
7	II	2
$7\frac{1}{2}$	I	1

Pencil Lengths

Length (in inches)

Observe Your Child

Focus on Mathematical Practice 2
Reason abstractly and quantitatively.

Help your child become proficient with Mathematical Practice 2. Ask your child which pencil length occurs most often. Which pencil length occurs least often? Discuss how to answer these questions by looking at the line plot.