

FAMILY MATH

Collecting and Displaying Data

Dear Family,

Your student is collecting a variety of data and deciding how to display it. Earlier in grade 3, students made line plots with whole-number data. Now, they collect and record fractional numbers. They measure the perimeters of shapes with curved edges to the nearest quarter inch and create line plots. Data collected by measuring objects is called measurement data. Students also create scaled picture graphs and scaled bar graphs to solve problems about categorical data. Through experience, your student learns that some questions are easier to answer with one type of graph than another.

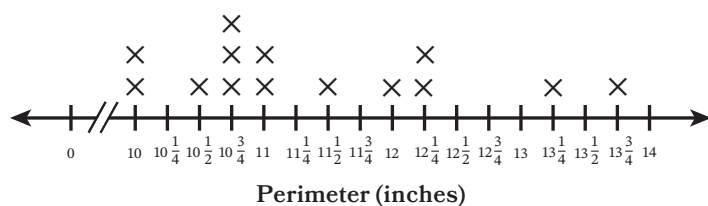
Key Terms

measurement data

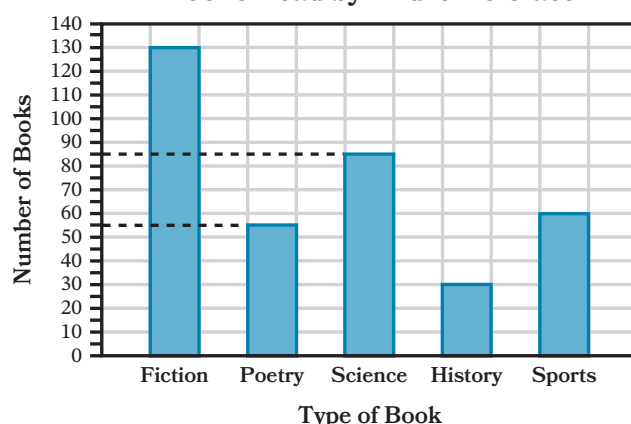
scaled picture graph



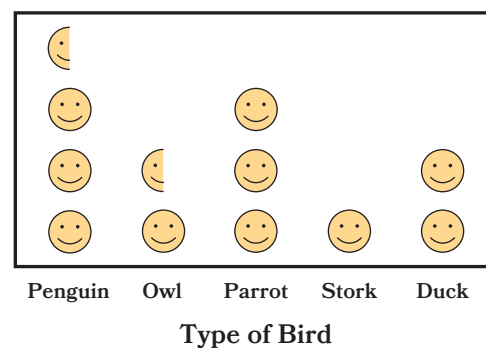
Perimeters of Circles



Books Read by Andrew's Class



Favorite Birds of Zoo Visitors



Each  represents 100 votes.

Students wrap a string around the curved edge of a shape and mark its length. They use a ruler to find the length of the marked string. Students create line plots with the measurement data they collect.

In a scaled bar graph, the scale shows skip-counts by a number other than 1. In a scaled picture graph, a picture or symbol represents more than 1.

At-Home Activity

Favorite Flavors

Ask your family and friends for their favorite ice cream flavor. Use a tally chart to collect the data. Create a scaled picture graph to display the data. Use a key to show that each ice cream cone on the graph represents 2 votes. Don't forget the title (Favorite Flavors of Ice Cream) and labels (chocolate, vanilla, etc.). Report back to your family and friends with the winning flavor!