

Math Connections for Parents

Grade 2 Module 7

Problem Solving with Length, Money, and Data

Welcome to Second Grade Module 7! In this module, students will practice addition and subtraction to 20 in word problems that involve length, money and data. For data, they will draw and read picture and bar graphs and line plots. For money, they will work with bills and coins to find unknowns in various problems. For measurement, they will measure using inch rulers and yardsticks, and then apply that knowledge to word problems.

Important Words and Concepts

- Bar graph: showing data using lines or rectangles
- Picture graph: showing data using pictures
- Line plot: showing data with an X above each value on a number line
- Scale: putting marks at intervals, used as reference standard in measurement
- Table: representation of data using rows and columns
- Legend: notation on a graph explaining what symbols represent

Sums and Differences to 20

Students continue to work on mastering addition and subtraction facts from 0-20. They will now use these facts in stories involving money, length and data, and will work with two-digit addition and subtraction. Continue to practice basic facts at home.

KEY STANDARDS

- Fluently add and subtract within 100
- Measure the length of an object by selecting and using appropriate tools (ruler, yardstick, meter stick, measuring tape), solve word problems with length
- Measure an object using two different units and compare
- Represent whole numbers as lengths on a number line
- Estimate lengths using inches, feet, centimeters and meters.
- Measure to figure out how much longer one object is than another
- Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies using \$ and ¢ symbols.
- Collect data on measurement and show this on a line plot.
- Draw a picture and bar graph to represent data.

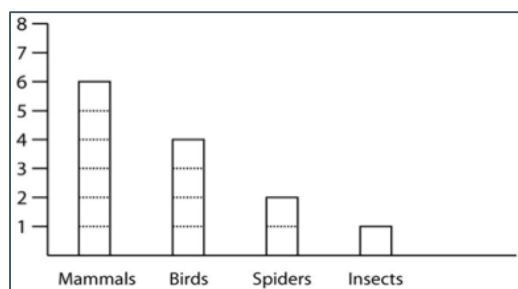


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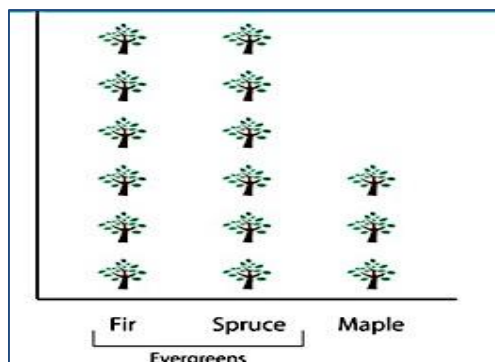
"Committed to Excellence. One Student at a Time."

For more resources, please visit www.newarkcityschools.org → Parent Math Academy K-5

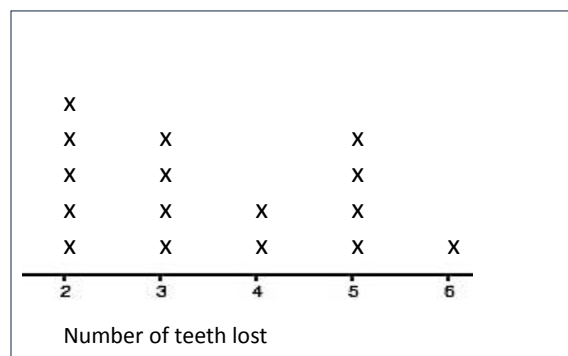
Graphics and Strategies you may see...



Bar Graph



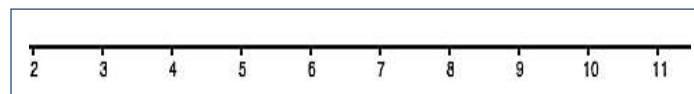
Picture Graph



Line Plot

Animal Classification			
Birds	Fish	Mammals	Reptiles
6	5	11	3

A Table is used to show data



Scale

Students will work with money to make total values:

<p>26 cents</p> <p>2 dimes, 1 nickel, and 1 penny = 26 cents</p>	<p>Another way to make 26 cents:</p>
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Standards for Measurement

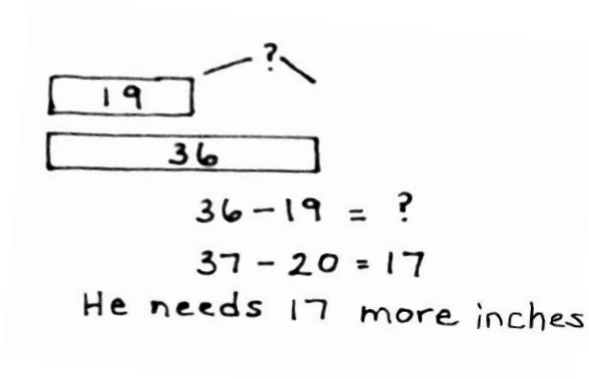
Inch (in.)

Feet (ft.) 1 foot = 12 inches

Yard (yd.) 1 yard = 3 feet = 36 inches

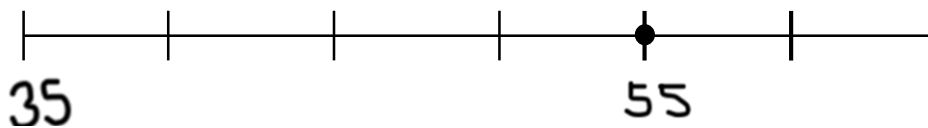
Students use these measurements to solve word problems:

Mr. Ramos has knit 19 inches of a scarf he wants to be 1 yard long.
How many more inches of scarf does he need to knit?



Students will use a number line to show two-digit addition and subtraction that involves length.

What is 20 yards more than 35 yards?



$$35 + 20 = 55$$