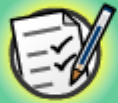# Making Graphs 2

Common core icons

This icon indicates a slide where the Standards for Mathematical Practice are being developed. Details of these are given in the Notes field.

MODELING

Slides containing examples of mathematical modeling are marked with this stamp.

This icon indicates an opportunity for discussion or group work.

The **Standards for Mathematical Practice** outlined in the Common Core State Standards for Mathematics describe varieties of expertise that mathematics educators at all levels should seek to develop in their students.

These are:

1) **Make sense of problems and persevere in solving them.**

2) **Reason abstractly and quantitatively.**

3) **Construct viable arguments and critique the reasoning of others.**

4) **Model with mathematics.**

5) **Use appropriate tools strategically.**

6) **Attend to precision.**

7) **Look for and make use of structure.**

8) **Look for and express regularity in repeated reasoning.**

This icon indicates that the slide contains activities created in Flash. These activities are not editable.

This icon indicates teacher's notes in the Notes field.

Nicole asked each of her classmates how many siblings they have. How could Nicole display her data in a graph?

Can you interpret these picture graphs and bar graphs?
Study the graphs and press the correct answer to each question.
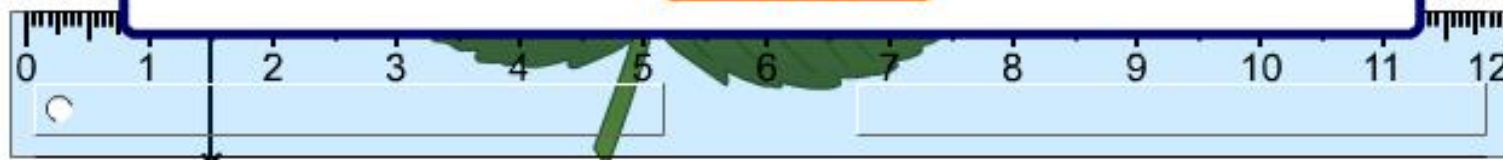
Press **start** to begin.

start

Measuring leaves

length = [   ]

An important part of making graphs is collecting data. Use the ruler to measure each leaf to the nearest quarter inch. Record your results and think about how you could display them with a line plot.

Press **start** to begin.

start

0   1   2   3   4   5   6   7   8   9   10   11   12

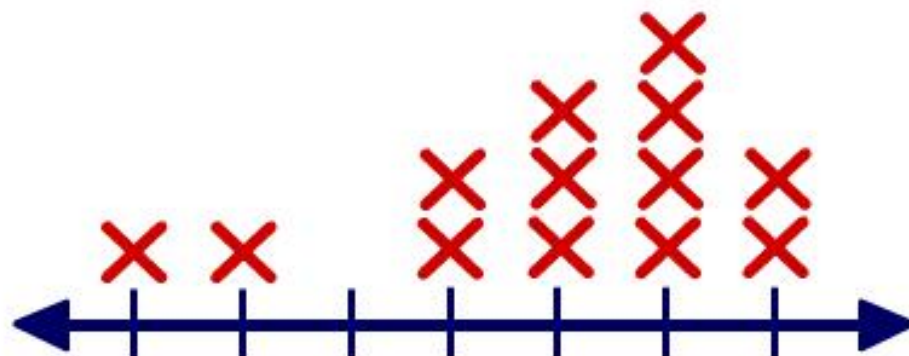| Leaf	Length
Sycamore	$6\frac{1}{4}$ in.
Oak	$5\frac{3}{4}$ in.
Silver Birch	4 in.
Beech	$6\frac{1}{4}$ in.
Wild Pear	$4\frac{1}{2}$ in.
Hazel	$6\frac{1}{4}$ in.

How could we display this data in a line plot?

Decide on the best way to solve each problem and press the correct answer.

Press **start** to begin.

start

Ms. Garcia's science class is learning how to measure liquid in beakers. This is a line plot showing their measurements to the nearest $\frac{1}{2}$ ml.