Unit 4 Module 4 Session 2

Problems & Investigations-Gathering & Recording Beanstalk Data

Getting Ready-

- ™ T2-T4 Line Plot Scale (See Preparation)
- SB 138 Beanstalk Data
- Measuring tapes marked in inches (half-class set)
- Your beanstalk from the previous session (see Preparation)
- Students' beanstalks from the previous session
- Red markers 1 1/2" x 2" sticky notes

Vocabulary

Distance

Height

Horizontal Scale

Inch

Length

Measure

Nearest half-inch (in)

Nearest quarter-inch (in)

- Demonstrate an understanding of a unit fraction
- Generate data by measuring lengths to the nearest half or fourth of an inch
- Make a line plot to show measurement data, with a horizontal scale marked in half inches

Let’s discuss our beanstalks before we record our data.

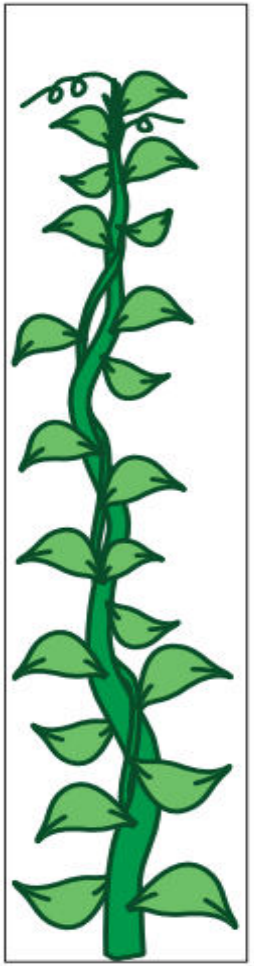
Were all the leaves the same length?

How many leaves did you draw and measure?

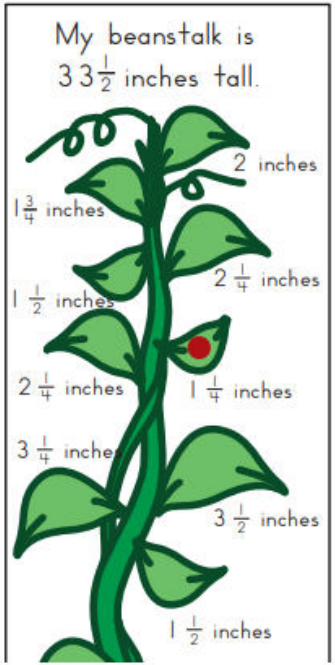
Did you record a lot of fractions in your measurements, or did the lengths of most of your leaves turn out to be whole numbers?

What was the length of your shortest leaf?

Your longest leaf?



Beanstalk Data



1 Use your beanstalk measurements to answer the questions below.

a My beanstalk is _____ inches tall.

b How many leaves are on your beanstalk? _____

c The longest leaf is _____ inches long.

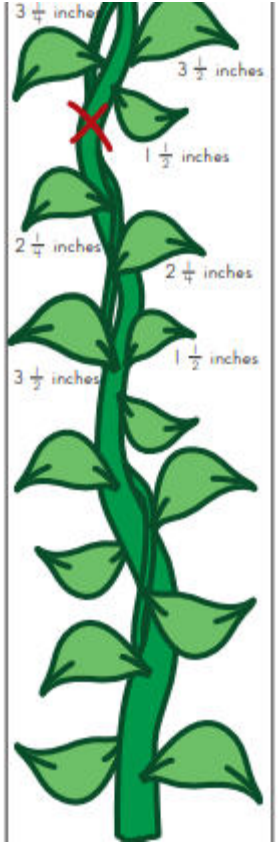
d The widest leaf is _____ inches wide. Measure this to the nearest quarter-inch.

2 Put a red dot on the smallest leaf on your beanstalk. How far is the red dot from the top your beanstalk? Measure the distance to the nearest quarter-inch.

My red dot is _____ inches from the top.

3 Draw a red "X" more than one-third but less than five-sixths of the way up the beanstalk to show where Jim is climbing. Measure the distance to the nearest half-inch.

My X is ☐ inches from the bottom.



4 What else do you notice?

This is a line plot

x

12 121/2 13 131/2 14 141/2 15 151/2 16 161/2 17 171/2 18 181/2 19 191/2 20 201/2 21 211/2 22

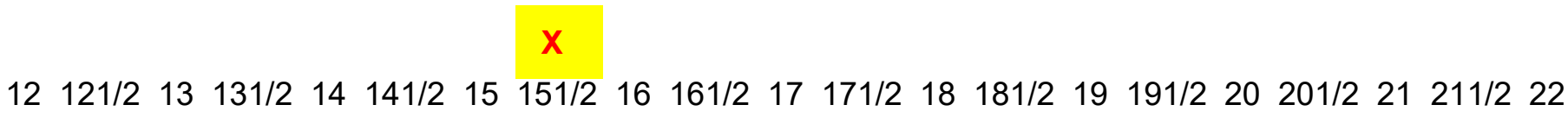
Let’s put our data sticky notes on the line plot.

What do the Xs stand for?

What should we title our line plot?

How shall we label the horizontal scale? (What do the numbers on the scale stand for?)

Which measurement(s) did we have fewest of?



Work Places

3C Round Ball Hundreds

3D Round & Add Hundreds

4A Tic-Tac-Tock

4B Measurement Scavenger Hunt

4C Target One Thousand

4D Hexagon Spin & Fill

Daily Practice

SB 139 Beanstalk Line Plot

Home Connection

HC 77-78 Snack Time: Mass, Volume, & Length