Gathering & Recording Beanstalk Data

Module 4
Session 2

Today's Activities

- Create a line plot with our beanstalk data

Beanstalk Review

Think back to our last session…

*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? Longest?

Beanstalk Data - Student Book page 138

Let's work together to discuss the answers to the questions using your teacher's beanstalk.

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.

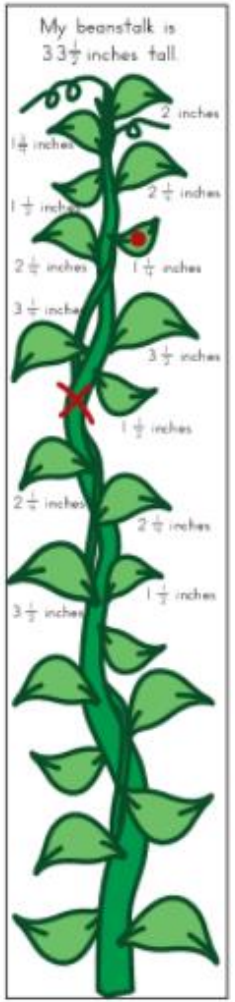
2 Put a red dot on the smallest leaf on your beanstalk. How far is the red dot from the top your beanstalk? Measure the distance to the nearest quarter-inch.

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.

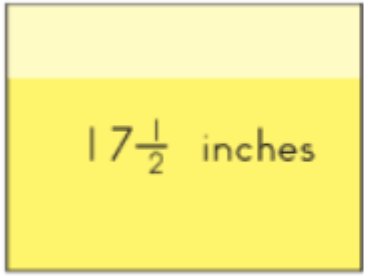
My X is _____ inches from the bottom.

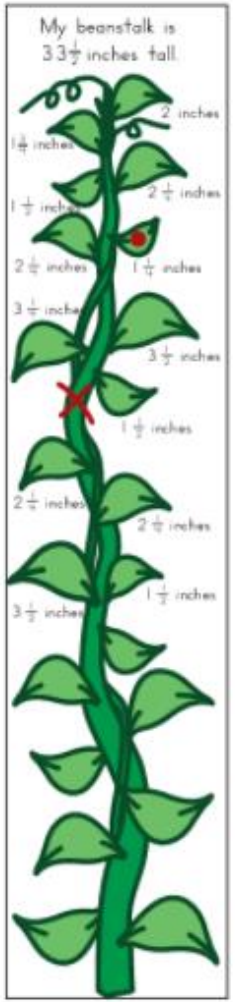
4 What else do you notice?



Beanstalk Data

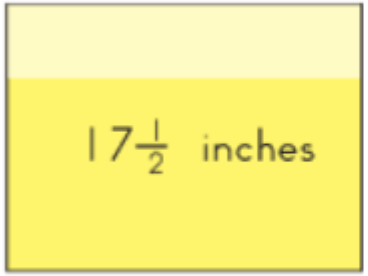
Let's record the number of inches (to the nearest half inch) from the bottom to the X on the back (sticky side) of a sticky note with a pencil, draw a large "X" on the front of the sticky note with a red marker. *We will use these sticky notes to help make a data display later in this session, so we will hold on to it for now.*

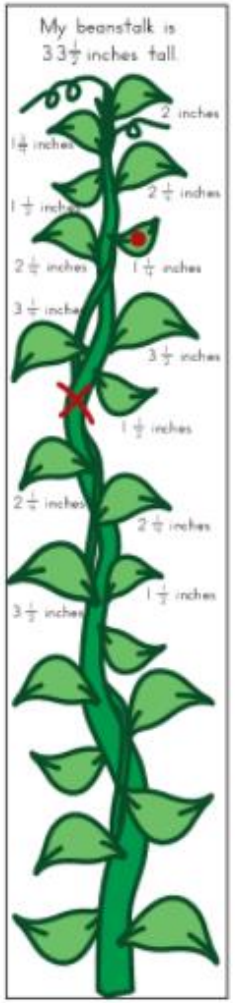




Beanstalk Data

Now you will work with your partner to complete your beanstalk data record sheet on page 138 using your beanstalk. Both partners are responsible for filling out their own page, even though you are sharing the same beanstalk.

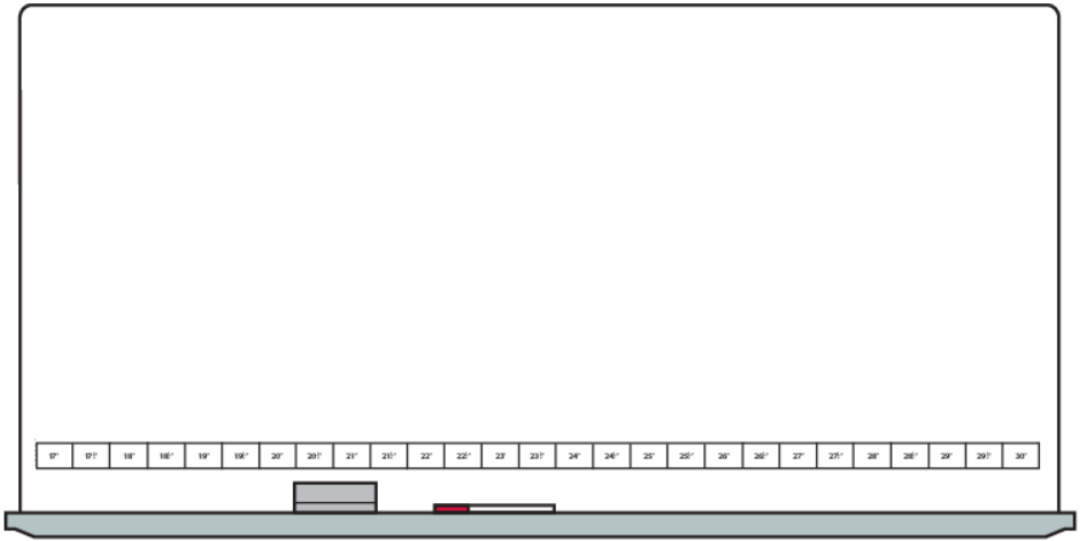




Beanstalk Data Line Plots

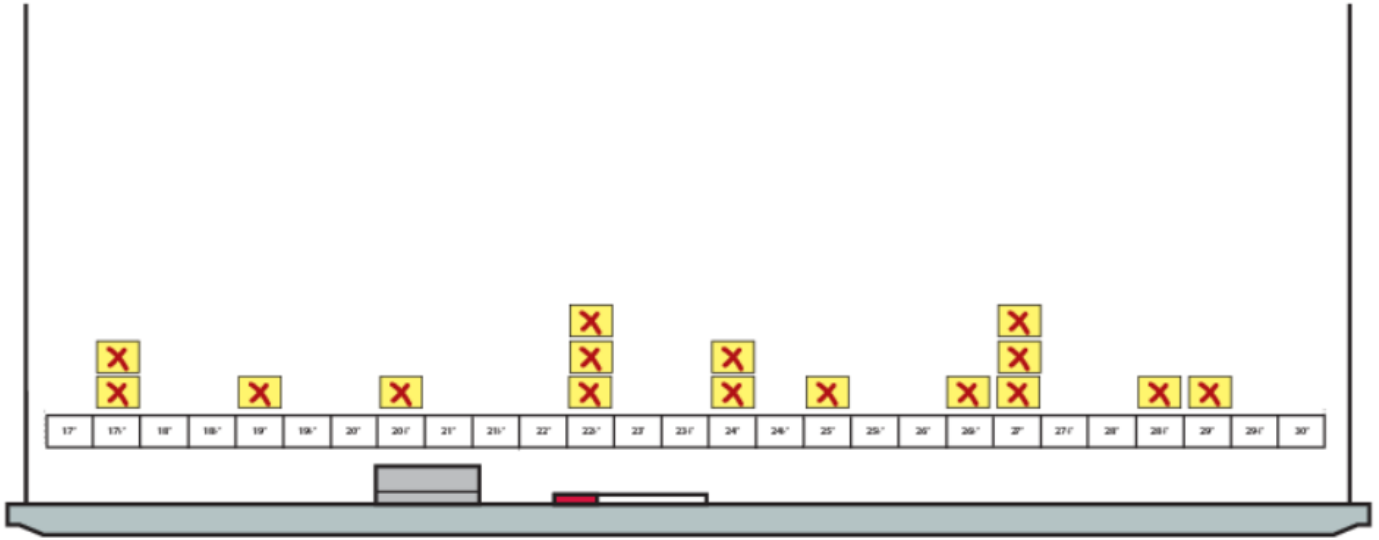
Look at the display. What do you notice?

The numbers on the scale start at 12 and run through 30. When you construct a line plot, the numbers on the horizontal scale have to include ALL the values in a data set, but not necessarily the numbers before and after those values.



Beanstalk Data Line Plots

Add your sticky note above its corresponding number on the line plot.



Beanstalk Data Line Plots

What are three observations you can make about the line plot data?

- What do the Xs stand for?
- What should we title our line plot?
- How shall we label the horizontal scale?
- Which measurement(s) did we have the fewest of?
- How many students had that measurement?
- Which measurement(s) did we have the most of? How many students had that measurement?
- How many more students had this measurement than those who had the least measurement? How did you figure that out? How does the line plot help?
- If someone walked in and wanted to know what this data display was all about, how would you explain it to them? What does it show?

Closing

Clean up your supplies and hand in your beanstalks to be used next session.

Home Connection

Snack Time: Mass, Volume & Length
pages 77 & 78

Optional

Complete Beanstalk Line Plot on page 139 in your student book.