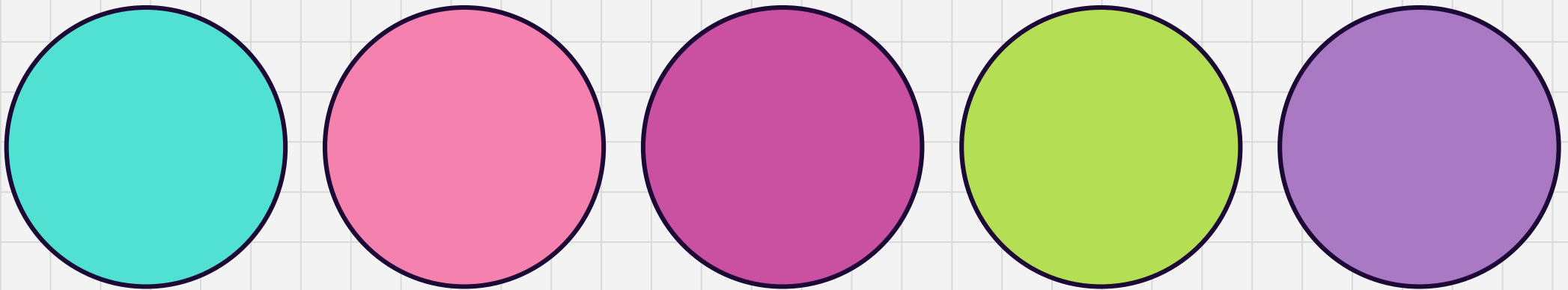




Unit 4, Module 4, Session 1

Creating & Measuring Beanstalks





Learning Goal:

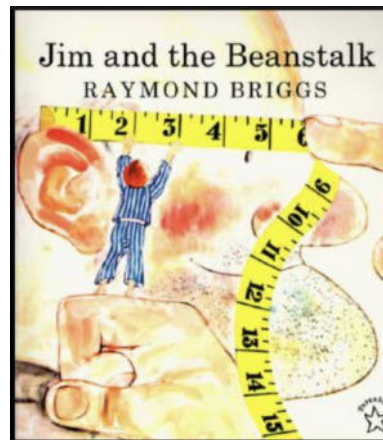
I can measure to the nearest half-inch.

I can measure to the nearest quarter-
inch.

Problems & Investigations

Creating & Measuring Beanstalks

We are going to use what you've learned about fractions to complete a three-day project that involves art, literature, measurement, fractions, and data analysis.



Problems & Investigations

Today, you will be creating your own beanstalk with a partner. Once you are done, you will measure the beanstalks in both inches and centimeters. Finally, you will create line plots to display all the data you collected.

Take a look at my beanstalk. What do you notice?

NAME _____

DATE _____



Creating & Measuring the Beanstalk

To create your beanstalk, you will need

- 1 strip of white paper
- green and red crayons and markers

Directions

- 1** Use a green marker, draw a long green beanstalk in the middle and along the length of the paper strip.
 - Make it thinner at the top of the stem and thicker at the bottom.
 - Add a curling vine at the top if you like.
- 2** Draw large and small leaves along both sides of the stalk with your green marker. Add veins to the leaves if you like.
- 3** Color in your beanstalk with a green crayon.
- 4** Write your name and your partner's in the bottom corner.

A decorative border consisting of a row of 20 colored circles at the top and another row of 20 colored circles at the bottom. The colors of the circles are cyan, pink, purple, lime green, and light purple, arranged in a repeating pattern.

To measure your beanstalk, you will need

- a measuring tape and a ruler, if you like

Directions

- 1** Estimate first, then measure!
- 2** Use the measuring tape to measure the height of the whole beanstalk, from top to bottom, to the nearest $\frac{1}{2}$ inch.
- 3** Record the lengths on your paper next to the items.
- 4** **CHALLENGE** Use the measuring tape, or a ruler if you prefer, to measure each leaf from tip to stem to the nearest $\frac{1}{4}$ inch.

Problems & Investigations

What do you think is the height of my beanstalk?

Let's measure my beanstalk.

Which leaf on my beanstalk do you think is the shortest?

Let's measure the leaf from tip to stem, working to the nearest quarter-inch this time.

Record the length on the paper next to the leaf.



Problems & Investigations

Which leaf on my beanstalk do you think is the next shortest?

Let's measure the leaf from tip to stem, working to the nearest quarter-inch this time.

Record the length on the paper next to the leaf.

Problems & Investigations

Which leaf on my beanstalk do you think is the next shortest?

Let's measure the leaf from tip to stem, working to the nearest quarter-inch this time.

Record the length on the paper next to the leaf.



Problems & Investigations

Now that you know what to do, you will work with your partners to estimate, measure, and record the length of the stalk to the nearest half-inch, and every leaf to the nearest quarter of an inch.

Daily Practice

Must Do

- Student Book Page 137
- XtraMath

May Do

- 3C Round Ball Hundreds
- 3D Round & Add Hundreds
- 4A Tic-Tac-Tock
- 4B Measurement Scavenger Hunt
- 4C Target One Thousand
- 4D Hexagon Spin & Fill