

Guided Math: Unit 4, Lesson 7

Essential Question

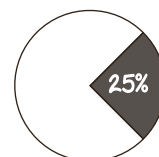
How can students use a number line to identify and plot decimal numbers?

Lesson Objective

Students will determine the decimal to the tenths place that corresponds to a specific point on a number line.

Whole-Group Lesson

Create an anchor chart with a large number line. The number line will represent tenths. Represent a whole number, such as 2, with a tick mark at the beginning of the number line. Then make 10 more evenly-spaced marks for each tenth until you arrive at the whole number 3. It's very important for students to understand how many parts of a tenth make a whole and that the tenth mark makes the whole complete. Compare the number line to one showing whole numbers. On the anchor chart, plot a point on the number line by drawing a small circle at 2.3 and labeling it A. Describe how points on a number line represent a specific value and that students will either label a point or plot a point. Have students practice by completing the Tenth on a Number Line blackline master. Then have students work with a partner to complete the Tenth on a Number Line Cards.



Lesson Discussion Questions

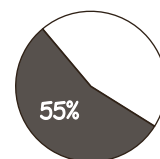
How can you use a number line to show tenths? How can you determine the value of a decimal number on a number line? How can you plot a decimal number on a number line?

Materials

- Tenth on a Number Line blackline master
- Tenth on a Number Line Cards, Sets 1–6
- Whiteboards
- Dry-erase markers and erasers

Small-Group Lesson

Have students continue to practice with labeling number lines and identifying points. Address any misconceptions with the students as they complete the work.



Remediate

Use a ten long as a model to help students visualize points on a number line.

On Level

Model, monitor, and assist as needed.

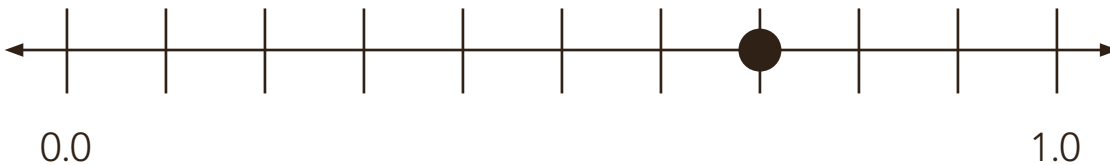
Enrich

Allow students to create a problem for their partner to solve.

Tenths on a Number Line

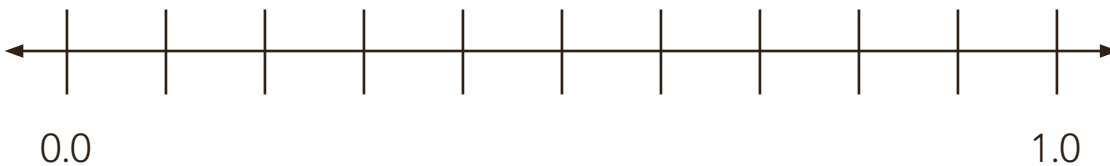
IDENTIFYING A DECIMAL

What decimal is represented by the point on the number line?



PLOTTING A DECIMAL

Represent 0.3 on the number line below.



Cut around the dotted line and place into Math Journal