Unit 5, Lesson 5

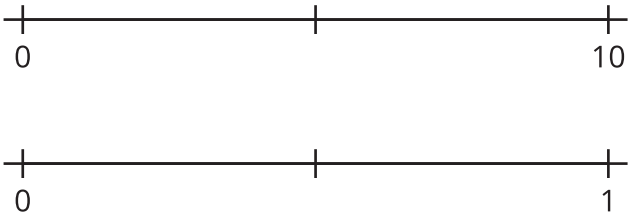
To the Number Line

Let's learn about fractions on the number line.

Warm-up

Notice and Wonder: Two Number Lines

What do you notice? What do you wonder?



Activity 1

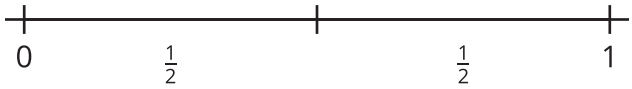
Card Sort: Number Lines

Your teacher will give you a set of cards that show number lines. Sort the cards into categories in a way that makes sense to you. Be ready to explain the meaning of your categories.

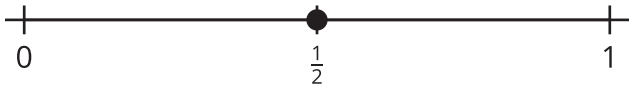
Activity 2

Fold and Label the Number Line

1. Andre and Clare are talking about how to label fractions on the number line.
   Andre says $\frac{1}{2}$ can be labeled like this:



Clare says $\frac{1}{2}$ can be labeled like this:



How could each student's labeling make sense?

2. Your teacher will give you a set of number lines. Cut your number lines apart so that you can fold each of them.

   As you fold, discuss your strategies with your partner.

   a. Fold a number line into halves. Draw tick marks to show the halves. Label $\frac{1}{2}$ on the number line.

   b. Fold a number lines into thirds. Draw tick marks to show the thirds. Label $\frac{1}{3}$ on the number line.

   c. Fold a number line into fourths. Draw tick marks to show the fourths. Label $\frac{1}{4}$ on the number line.

   d. Fold a number line into sixths. Draw tick marks to show the sixths. Label $\frac{1}{6}$ on the number line.

   e. Fold a number line into eighths. Draw tick marks to show the eighths. Label $\frac{1}{8}$ on the number line.