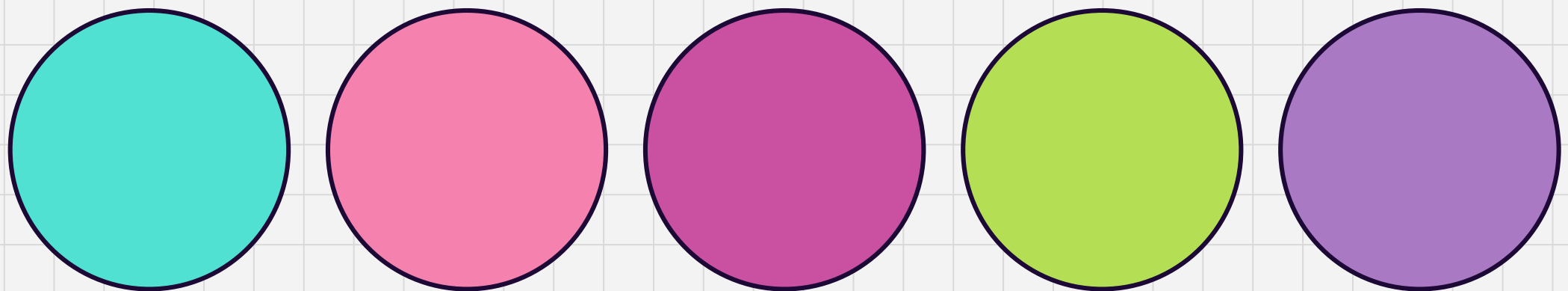




Unit 4, Module 3, Session 4

Fractions as Distances





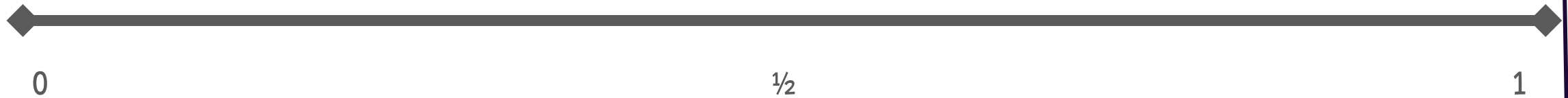
Learning Goal:

I can place fractions on a number line.

I can use a number line to help me locate fractions.

Problems & Investigations

Today, we're going to use a number line to show fractions. Our number line is going to go from 0 to 1 whole today.



Where would halfway across the line be located at?



Problems & Investigations

Where would $\frac{1}{4}$ belong on the number line?

Where would $\frac{3}{4}$ belong on the number line?

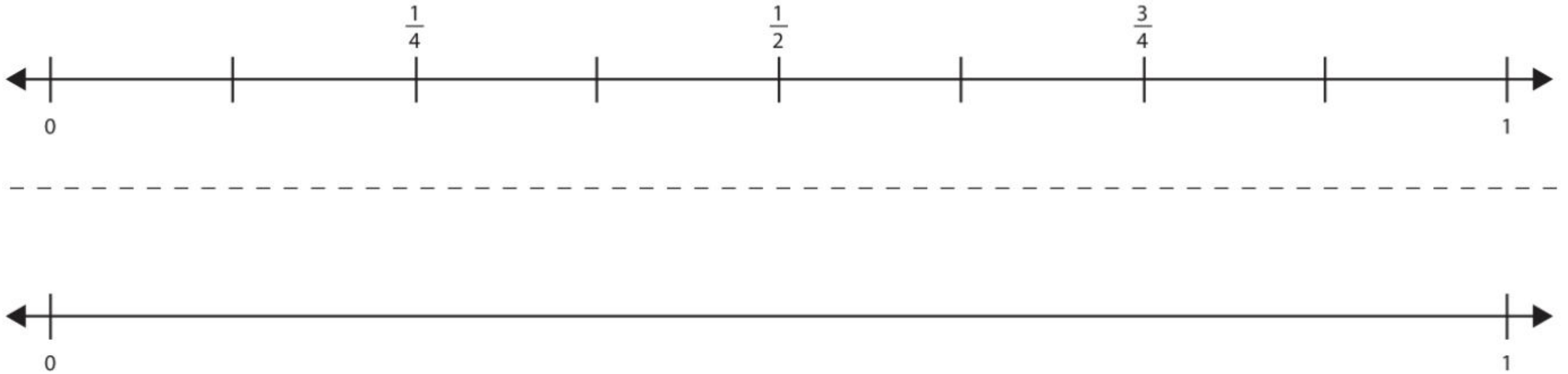
Where would $\frac{1}{8}$ belong on the number line?



What do you notice about the double number lines below?



Double Number Line





Slide your paperclip down your number line until you get halfway. Then flip over your number line to see how close you got to $\frac{1}{2}$.

What was your strategy to make it halfway through the number line?





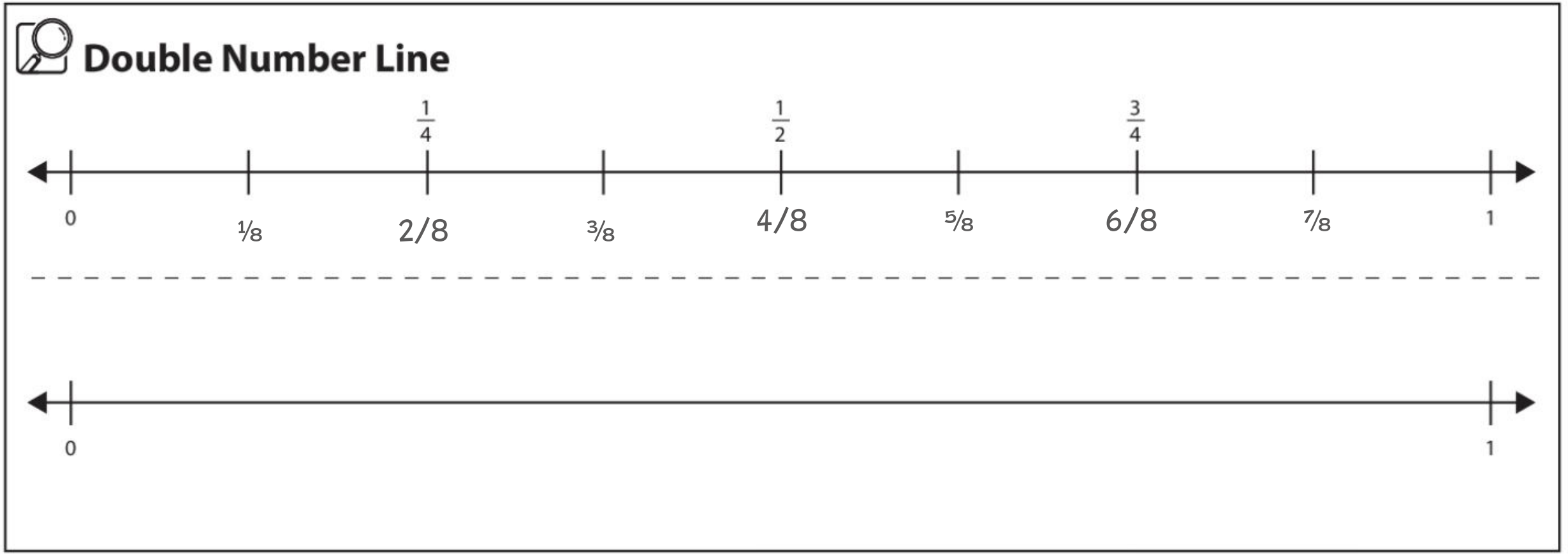
Slide your paperclip down your number line until you get $\frac{1}{4}$ of the way. Then flip over your number line to see how close you got to $\frac{1}{4}$.

What was your strategy to make it to $\frac{1}{4}$ on the number line?





What do you think we should label the other parts of the number line?
Why?





Slide your paperclip down your number line until you get $\frac{3}{4}$ of the way. Then flip over your number line to see how close you got to $\frac{3}{4}$.

What was your strategy to make it to $\frac{3}{4}$ on the number line?





Slide your paperclip down your number line until you get $\frac{1}{8}$ of the way. Then flip over your number line to see how close you got to $\frac{1}{8}$.

What was your strategy to make it to $\frac{1}{8}$ on the number line?





Slide your paperclip down your number line until you get $\frac{6}{8}$ of the way. Then flip over your number line to see how close you got to $\frac{6}{8}$.

What was your strategy to make it to $\frac{6}{8}$ on the number line?





Slide your paperclip down your number line until you get $\frac{3}{8}$ of the way. Then flip over your number line to see how close you got to $\frac{3}{8}$.

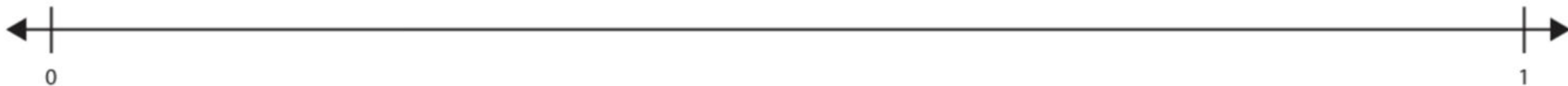
What was your strategy to make it to $\frac{3}{8}$ on the number line?





Slide your paperclip down your number line until you get $\frac{1}{4} + \frac{1}{4}$ of the way. Then flip over your number line to see how close you got to $\frac{1}{4} + \frac{1}{4}$.

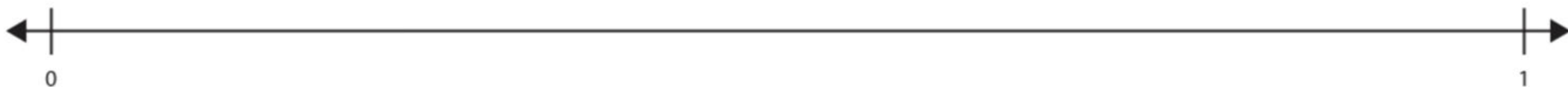
What was your strategy to make it to $\frac{1}{4} + \frac{1}{4}$ on the number line?





Slide your paperclip down your number line until you get $\frac{1}{8} + \frac{1}{8}$ of the way. Then flip over your number line to see how close you got to $\frac{1}{8} + \frac{1}{8}$.

What was your strategy to make it to $\frac{1}{8} + \frac{1}{8}$ on the number line?



Daily Practice

Must Do

- Student Book Page 133
- 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



NAME _____

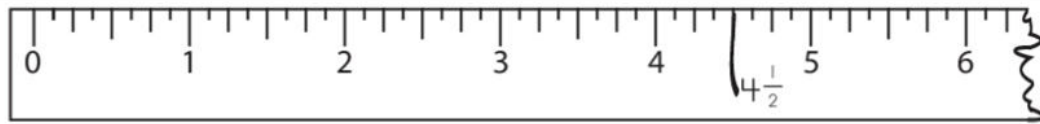
DATE _____



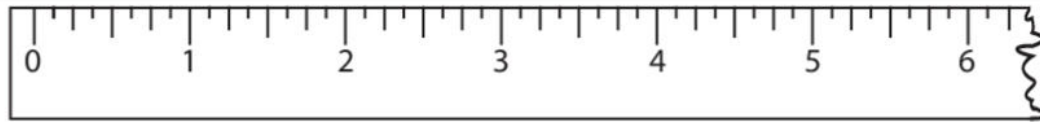
The Broken Ruler, Part 1

- 1 Find, mark, and label the measurements on the rulers below. The first one has been done for you.

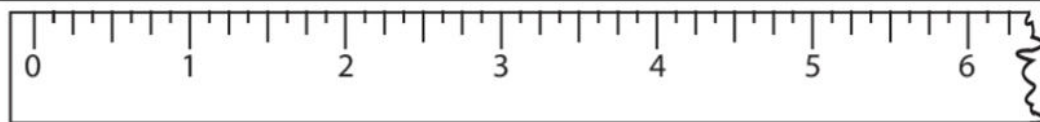
ex $4\frac{1}{2}$



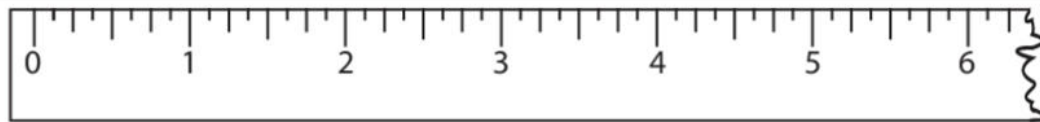
a $3\frac{1}{2}$



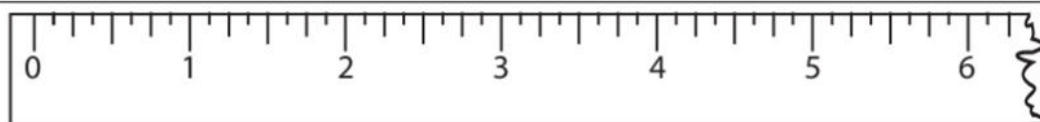
b $1\frac{1}{2}$



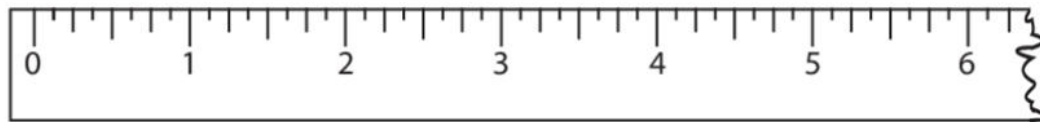
c $5\frac{3}{4}$




d $2\frac{1}{4}$



e $4\frac{1}{4}$





2 Share your work with a partner. Does he or she agree with each of the marks you made on the rulers? If not, decide who's correct and fix your work.

3 **CHALLENGE** What other fractions do you know? Mark and label them on this ruler.

