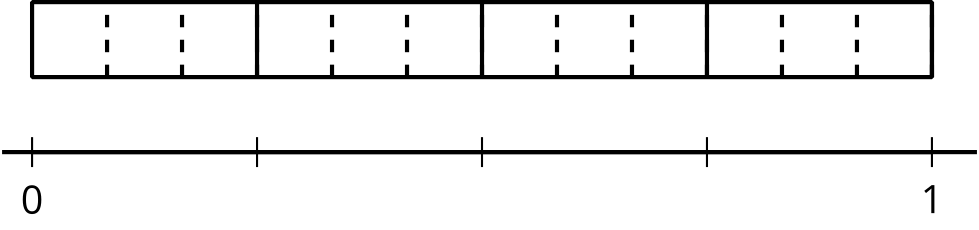
## Lesson 4: Same Size, Related Sizes

* Let’s find some fractions that are the same size.

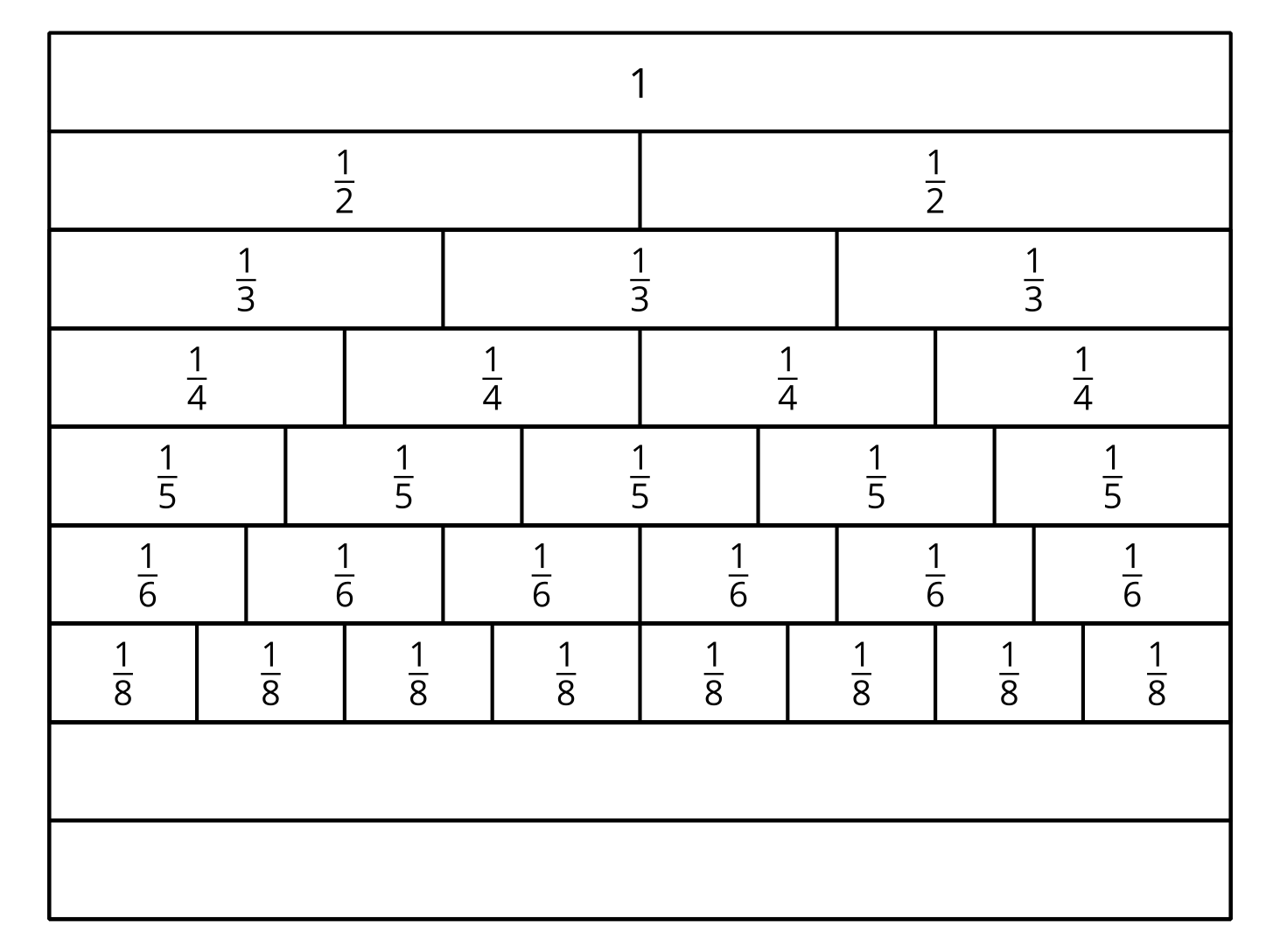
### Warm-up: Notice and Wonder: A Fraction Strip and a Number Line

What do you notice? What do you wonder?



### 4.1: Same Size, Different Numbers

Here’s a diagram of fraction strips, with two strips added for tenths and twelfths.

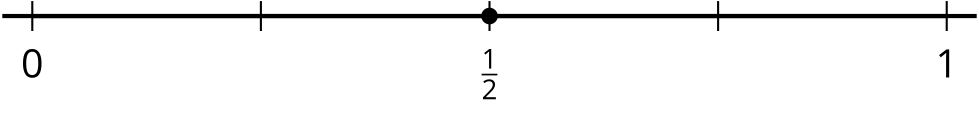
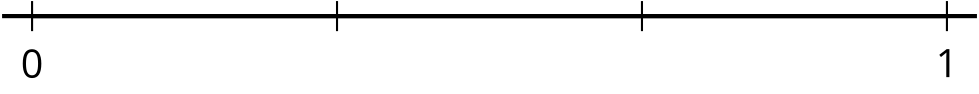
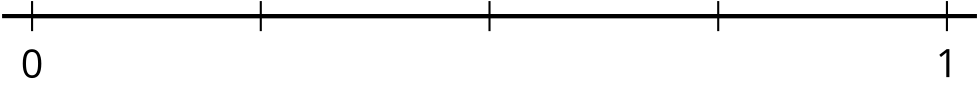
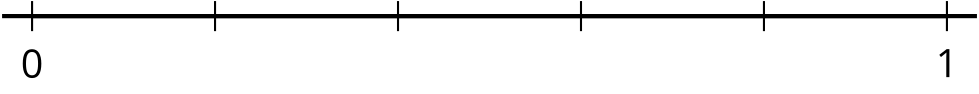


1. Use a blank strip to show tenths. Label the parts. How did you partition the strip?
2. Use a blank strip to show twelfths. Label the parts. How did you partition the strip?
3. Jada says, “I noticed that one part of is the same size as two parts of and three parts of . So , , and must be **equivalent**.”

* Find a fraction that is equivalent to each of the following fractions. Be prepared to explain your reasoning.

### 4.2: Fractions on Number Lines

1. Here are some number lines. The point on this number line shows the fraction .

* 
* Label the tick marks on each number line.
* 
* 
* 

1. Suppose you are to locate , , and on one of the number lines.
   1. Which number line would you use for each fraction? Be prepared to explain your reasoning.
   2. Locate and label each fraction (, , and ) on a different number line.
2. Locate and label each of the following fractions on one of the number lines.



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