

Lesson 12: Equivalent Fractions on a Number Line

• Let's find fractions at the same location.

Warm-up: Notice and Wonder: Running on a Trail

What do you notice? What do you wonder?

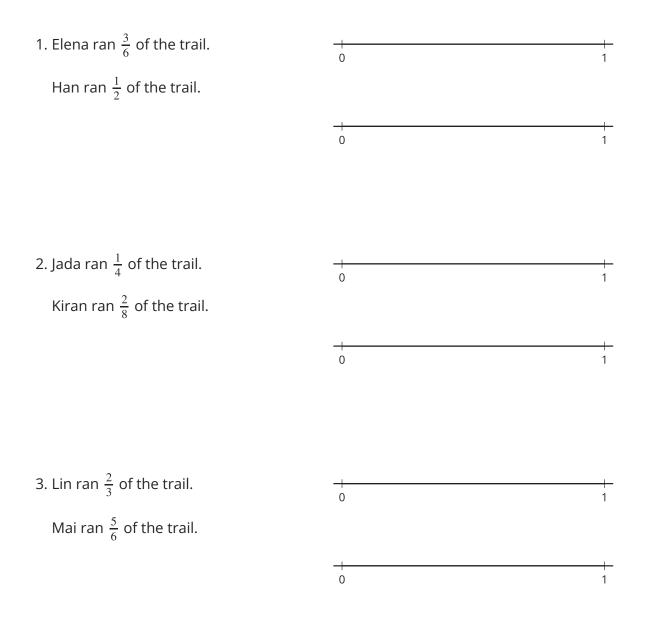
Tyler ran part of the length of a trail. Han ran part of the length of the same trail.



12.1: Running Part of a Trail

Some students are running on a trail at a park. Decide if each pair of students ran the same distance.

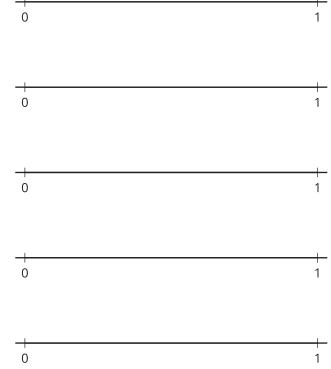
You can use number lines if they are helpful to you.



12.2: Locate and Pair

1. Locate and label the following numbers on a number line. You can use more than one number line if you wish.

 $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{3}$, $\frac{2}{6}$, $\frac{3}{8}$, $\frac{3}{4}$, $\frac{4}{6}$, $\frac{4}{8}$, $\frac{6}{8}$, $\frac{7}{8}$

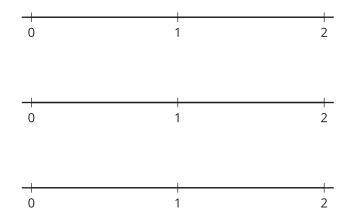


2. Find 4 pairs of fractions that are equivalent. Write equations to represent them.

_____= _____= _____=

If you have time: Use the number lines to generate as many equivalent fractions as you can.

=____



_____=

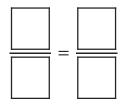
12.3: Rolling for Equivalent Fractions

- 1. Roll 6 number cubes. If you roll any fives, they count as a wild card and can be any number you'd like.
- 2. Can you put the numbers you rolled in the boxes to make a statement that shows equivalent fractions? Work with your partner to find out.
- 3. If you cannot, re-roll as many number cubes as you'd like. You can re-roll your number cubes twice.
- 4. If you can make equivalent fractions, record your statement and show or explain how you know the fractions are equivalent. You get 1 point for each pair of equivalent fractions you write.

Round 1:



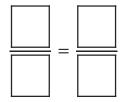
=



Show or explain how your fractions are equivalent.

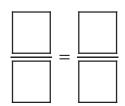
Show or explain how your fractions are equivalent.

Round 3:



Show or explain how your fractions are equivalent.

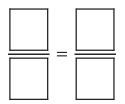
Round 4:



Show or explain how your fractions are equivalent.

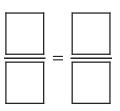


Round 5:



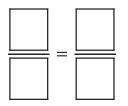
Show or explain how your fractions are equivalent.



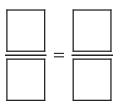


Show or explain how your fractions are equivalent.

Round 7:



Round 8:



Show or explain how your fractions are equivalent.

Show or explain how your fractions are equivalent.