

#### **Grade 4 Unit 2**

Lesson 8

CC BY 2021 Illustrative Mathematics®

# **Unit 2 Lesson 8: Equivalent Fractions on the Number Line**

## **WU Estimation Exploration: A Shaded Portion (Warm up)**

Student Task Statement

If the entire diagram represents 1 whole, about what fraction is shaded?



Make an estimate that is:

too low	about right	too high

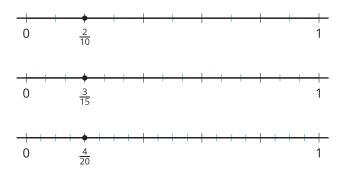
## **1 Handy Number Lines**

Student Task Statement

Andre used number lines to find fractions that are equivalent to  $\frac{1}{5}$ . He drew this number line:



Then, he drew three more lines and wrote a fraction for the point on each line:



- 1. How did Andre use the number lines to find fractions equivalent to  $\frac{1}{5}$ ? Explain your thinking to a partner.
- 2. How can number lines be used to show whether the following fractions are equivalent?
  - a.  $\frac{8}{10}$  and  $\frac{4}{5}$
  - b.  $\frac{14}{20}$  and  $\frac{4}{5}$
- 3. Find three fractions that are equivalent to  $\frac{6}{5}$ . Explain or show how Andre's number lines can help.

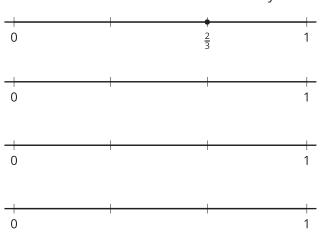
### 2 Can It Be Done?

#### Student Task Statement

1. Priya wants to find fractions that are equivalent to  $\frac{2}{3}$ , other than  $\frac{4}{6}$ . She wonders if she can find equivalent fractions with denominator 9, 10, and 12.

9 10 12

Can it be done? Use number lines to show your reasoning.



2. Represent  $\frac{1}{10}$  on a number line. Then, find two fractions that are equivalent to  $\frac{1}{10}$ . How would you use the number line to show that they are equivalent to  $\frac{1}{10}$ ?

0 1



3. Can you find an equivalent fraction for  $\frac{1}{10}$  with 100 for the denominator? Explain or show your reasoning.