## Grade 4 Unit 2

Lesson 8
CC BY 2021 Illustrative Mathematics®

## Unit 2 Lesson 8: Equivalent Fractions on the Number Line <br> 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.


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 $\frac{1}{10}$ ?

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

