# Illustrative Mathematics

**Grade 4 Unit 2** Lesson 14 CC BY 2021 Illustrative Mathematics®

# **Unit 2 Lesson 14: Fraction Comparison Problems**

### WU Number Talk: Multiples of Ten (Warm up)

Student Task Statement

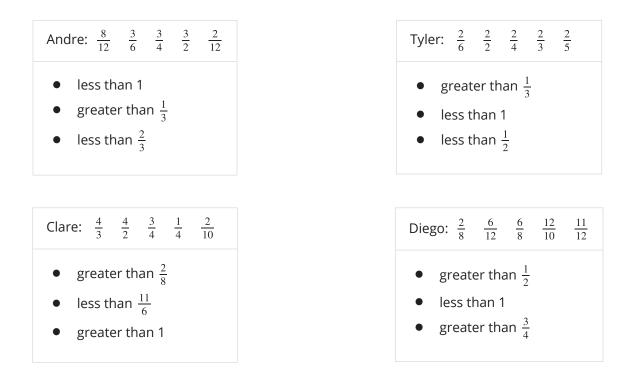
Find the value of each expression mentally.

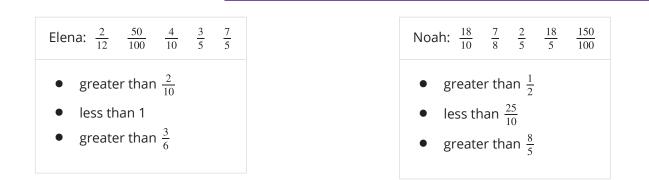
- 119 + 119
- 139 + 139
- 159 + 159
- 199 + 199

## **1 Mystery Fractions**

#### Student Task Statement

Six friends are each given a list of 5 fractions. They each chose one fraction quietly and wrote clues about their choice. Use their clues to identify the fractions they chose.





#### 2 Distances on Foot

Student Task Statement

In China and some East Asian countries, the unit "li" is used for measuring distance.

Here are the walking distances between the home of a student in China and the places he visits regularly.

- school:  $rac{7}{5}$  li
- library:  $\frac{23}{10}$  li

- market: <sup>7</sup>/<sub>4</sub> li
  badminton club: <sup>23</sup>/<sub>12</sub> li



- 1. Which is a shorter distance from the student's home:
  - a. His school or the library?
  - b. The market or the badminton club?
  - c. The library or the market?
- 2. A student in America walks  $\frac{4}{5}$  kilometer (km) to school. These number lines show how 1 kilometer compares to 1 li.



Which student walks a longer distance to school? Use the number lines to show your reasoning.

3. Explain why we can't just compare the fractions  $\frac{4}{5}$  and  $\frac{7}{5}$  to see which student walks a longer distance.