Unit 1 Lesson 13 TEKS: 4.1.B, 4.1.D, 4.1.F, 4.3.D

Comparing Distances

Let's compare fractions with denominators that are not related to each other.

Lesson Art Placeholder

I am a doer of math.
How might it help others when someone shares a mathematical idea, even if they are not sure it will work?

Warm-Up eyes on teacher

Activity 1 Comparing Our Distances

Ingrid, Gavin, Jules, Eli, and Lee each wrote down the distances they walked or ran in kilometers on 2 different days.

For each student, compare their distances using the symbol >, <, or =.

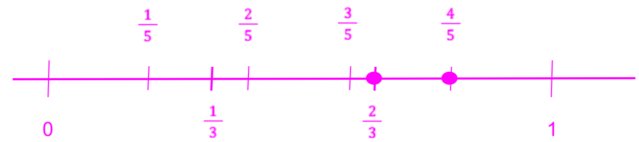
Show or explain your thinking. Sample work shown.

1. Ingrid: Compare $\frac{4}{3}$ and $\frac{13}{12}$.

$\frac{4 \times 4}{3 \times 4} = \frac{16}{12}$ $\frac{16}{12} > \frac{13}{12}$

answer: $\frac{4}{3} > \frac{13}{12}$

2. Gavin: Compare $\frac{2}{3}$ and $\frac{4}{5}$.

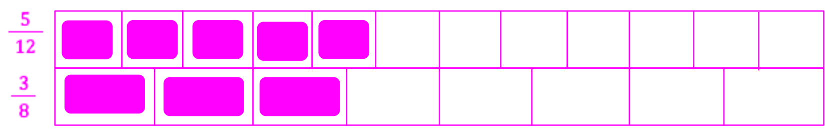


answer: $\frac{2}{3} < \frac{4}{5}$

Activity 1 Comparing Our Distances (continued)

Show or explain your thinking. Sample work shown.

3. Jules: Compare $\frac{5}{12}$ and $\frac{3}{8}$.



answer: $\frac{5}{12} > \frac{3}{8}$

4. Eli: Compare $\frac{11}{10}$ and $\frac{6}{5}$.

$$\frac{6 \times 2}{5 \times 2} = \frac{12}{10} \qquad \frac{11}{10} < \frac{12}{10}$$

answer: $\frac{11}{10} < \frac{6}{5}$

5. Lee: Compare $\frac{13}{5}$ and $\frac{11}{6}$.

$\frac{13}{5}$ is more than 2, and $\frac{11}{6}$ is less than 2.

answer: $\frac{13}{5} > \frac{11}{6}$

6. **Discuss** **Oral activity: No writing expected.**

- Did you use the same strategy for each problem?
- How did you choose which strategy to use?
- Justify your solutions to Problems 1-5 to your partner and explain how you know your solutions are reasonable.