Section C: Practice Problems

1. For each pair of fractions, decide which fraction is greater. Explain or show your reasoning.

   a. $\frac{2}{5}$ or $\frac{2}{6}$

   b. $\frac{5}{8}$ or $\frac{7}{8}$

   c. $\frac{9}{10}$ or $\frac{103}{100}$

   (From Unit 2, Lesson 12.)

2. Use a $<$, $=$, or $>$ to make each statement true. Explain or show your reasoning.

   a. $\frac{2}{3}$ _____ $\frac{10}{15}$

   b. $\frac{1}{5}$ _____ $\frac{22}{100}$

   c. $\frac{10}{4}$ _____ $\frac{45}{20}$

   (From Unit 2, Lesson 13.)

3. There is a water fountain $\frac{7}{10}$ mile from the start of a hiking trail. There is a pond $\frac{3}{5}$ mile from the start of the trail. If a hiker begins walking at the start of the trail, which will they come across first, the water fountain or the pond? Explain your reasoning.

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(From Unit 2, Lesson 14.)

4. Tyler said he grew $\frac{3}{2}$ centimeters since his height was measured six months ago.

Diego said, "Oh, you grew more than I did! My height went up only by $\frac{7}{8}$ inch in the past six months."

Explain why Tyler may not have grown more than Diego did, even though $\frac{3}{2}$ is greater than $\frac{7}{8}$.

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(From Unit 2, Lesson 14.)

5. List these fractions from least to greatest. Explain or show your reasoning.

$$\frac{1}{3} \qquad \frac{5}{12} \qquad \frac{2}{10}$$

(From Unit 2, Lesson 15.)

6. List these fractions from least to greatest. Explain or show your reasoning.

$$\frac{15}{8} \qquad \frac{215}{100} \qquad \frac{7}{4} \qquad \frac{21}{10}$$

(From Unit 2, Lesson 16.)

7. **Exploration**

Jada lists these fractions that are all equivalent to $\frac{1}{2}$: $\quad \frac{2}{4}, \frac{3}{6}, \frac{4}{8}, \frac{5}{10}$

She notices that each time the numerator increases by 1 and the denominator increases by 2. Will the pattern Jada notices continue? Explain your reasoning.

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8. **Exploration**

Find a fraction that is between $\frac{2}{5}$ and $\frac{3}{8}$. Explain or show your reasoning.