Section C: Practice Problems

1. a. Andre ran $\frac{4}{5}$ of a 7 mile trail. Did Andre run more or less than 7 miles? Explain or show your reasoning.

   b. Clare ran $\frac{\square}{10}$ of a 7 mile trail. She ran more than 7 miles. Choose a number that could go in the box. Explain or show your reasoning.

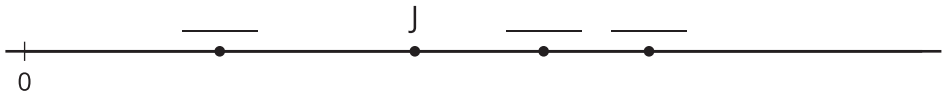
(From Unit 6, Lesson 16.)

2. The point J on the number line shows how many miles Jada ran. Label the points on the number line to show how far each of these students ran.

   a. Clare ran $\frac{8}{5}$ as far as Jada.

   b. Tyler ran $\frac{4}{3}$ as far as Jada.

   c. Lin ran $\frac{1}{2}$ as far as Jada.



(From Unit 6, Lesson 17.)

3. The point A is labeled on the number line.

Label each of these points on the number line.

- $\frac{2}{5} \times A$
- $\frac{13}{10} \times A$
- $\frac{7}{4} \times A$

(From Unit 6, Lesson 18.)

4. Use the equation $\frac{5}{7} = \left(1 - \frac{2}{7}\right)$ to explain why $\frac{5}{7} \times \frac{11}{3} < \frac{11}{3}$.

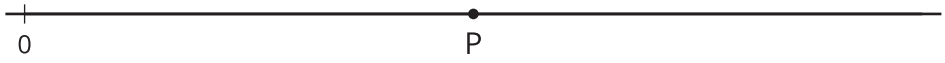
(From Unit 6, Lesson 19.)

5. Explain why multiplying a fraction by a number less than 1 makes the fraction smaller.

(From Unit 6, Lesson 20.)

6. **Exploration**

A point P is labeled on the number line.



a. P is $\frac{3}{4}$ of a number A. Plot A on the number line. Explain or show your reasoning.

b. P is $\frac{5}{9}$ of a number B. Plot B on the number line. Explain or show your reasoning.

7. **Exploration**

a. About 10^6 people live in Michigan. About 10^4 of the people in Michigan live in Flint.

i. How many times as many people live in Michigan as in Flint?

ii. How many times as many people live in Flint as in Michigan?

b. There are about 10^{11} stars in the Milky Way. There are about 10^{21} stars in the universe.

i. How many times as many stars are there in the universe than in the Milky Way?

ii. How many times as many stars are there in the Milky Way than in the universe?