Lesson 6 Practice Problems

1. A group of friends is sharing $2\frac{1}{2}$ pounds of berries.

   a. If each friend received $\frac{5}{4}$ of a pound of berries, how many friends are sharing the berries?

   b. If 5 friends are sharing the berries, how many pounds of berries does each friend receive?

2. $\frac{2}{5}$ kilogram of soil fills $\frac{1}{3}$ of a container. Can 1 kilogram of soil fit in the container? Explain or show your reasoning.

3. After raining for $\frac{3}{4}$ of an hour, a rain gauge is $\frac{2}{5}$ filled. If it continues to rain at that rate for 15 more minutes, what fraction of the rain gauge will be filled?

   a. To help answer this question, Diego wrote the equation $\frac{3}{4} \div \frac{2}{5} = ?$. Explain why this equation does *not* represent the situation.

   b. Write a multiplication equation and a division equation that do represent the situation.

4. 3 tickets to the museum cost $12.75. At this rate, what is the cost of:

   a. 1 ticket?

   b. 5 tickets?

(From Unit 2, Lesson 6.)

5. Elena went 60 meters in 15 seconds. Noah went 50 meters in 10 seconds. Elena and Noah both moved at a constant speed.

   a. How far did Elena go in 1 second?

   b. How far did Noah go in 1 second?

   c. Who went faster? Explain or show your reasoning.

(From Unit 2, Lesson 6.)

6. The first row in the table shows a recipe for 1 batch of trail mix. Complete the table to show recipes for 2, 3, and 4 batches of the same type of trail mix.

number of batches	cups of cereal	cups of almonds	cups of raisins
1	2	$\frac{1}{3}$	$\frac{1}{4}$
2			
3			
4			

(From Unit 2, Lesson 8.)