

Lesson 9 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 8.)

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 9.)

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 11.)