## Unit 4 Lesson 9 Cumulative Practice Problems

1. A group of friends is sharing $2\frac{1}{2}$ pounds of berries.
	1. If each friend received $\frac{5}{4}$ of a pound of berries, how many friends are sharing the berries?
	2. 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?
	1. To help answer this question, Diego wrote the equation $\frac{3}{4}÷\frac{2}{5}=?$. Explain why this equation does *not* represent the situation.
	2. Write a multiplication equation and a division equation that do represent the situation.
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1. 3 tickets to the museum cost $12.75. At this rate, what is the cost of:
	1. 1 ticket?
	2. 5 tickets?
* (From Unit 2, Lesson 8.)
1. Elena went 60 meters in 15 seconds. Noah went 50 meters in 10 seconds. Elena and Noah both moved at a constant speed.
	1. How far did Elena go in 1 second?
	2. How far did Noah go in 1 second?
	3. Who went faster? Explain or show your reasoning.
* (From Unit 2, Lesson 9.)
1. 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.)



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