## Unit 3 Lesson 8 Cumulative Practice Problems

1. Clare said that $\frac{4}{3}÷\frac{5}{2}$ is $\frac{10}{3}$. She reasoned: $\frac{4}{3}⋅5=\frac{20}{3}$ and $\frac{20}{3}÷2=\frac{10}{3}$.
* Explain why Clare’s answer and reasoning are incorrect. Find the correct quotient.
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* (From Unit 3, Lesson 7.)
1. A recipe for sparkling grape juice calls for $1\frac{1}{2}$ quarts of sparkling water and $\frac{3}{4}$ quart of grape juice.
	1. How much sparkling water would you need to mix with 9 quarts of grape juice?
	2. How much grape juice would you need to mix with $\frac{15}{4}$ quarts of sparkling water?
	3. How much of each ingredient would you need to make 100 quarts of punch?
* (From Unit 6, Lesson 1.)
1. At a deli counter,
	* Someone bought $1\frac{3}{4}$ pounds of ham for $14.50.
	* Someone bought $2\frac{1}{2}$ pounds of turkey for $26.25.
	* Someone bought $\frac{3}{8}$ pounds of roast beef for $5.50.
* Which meat is the least expensive per pound? Which meat is the most expensive per pound? Explain how you know.
* (From Unit 6, Lesson 1.)
1. Consider the problem: After charging for $\frac{1}{3}$ of an hour, a phone is at $\frac{2}{5}$ of its full power. How long will it take the phone to charge completely?
* Decide whether each equation can represent the situation.
	1. $\frac{1}{3}⋅?=\frac{2}{5}$
	2. $\frac{1}{3}÷\frac{2}{5}=?$
	3. $\frac{2}{5}÷\frac{1}{3}=?$
	4. $\frac{2}{5}⋅?=\frac{1}{3}$
* (From Unit 3, Lesson 6.)
1. Find each quotient.
	1. $5÷\frac{1}{10}$
	2. $5÷\frac{3}{10}$
	3. $5÷\frac{9}{10}$
* (From Unit 3, Lesson 7.)
1. Consider the problem: It takes one week for a crew of workers to pave $\frac{3}{5}$ kilometer of a road. At that rate, how long will it take to pave 1 kilometer?
* Write a multiplication equation and a division equation to represent the question. Then find the answer and show your reasoning.
* (From Unit 3, Lesson 6.)



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