## Unit 4 Lesson 11 Cumulative Practice Problems

1. Select **all** the statements that show correct reasoning for finding $\frac{14}{15}÷\frac{7}{5}$.
	1. Multiplying $\frac{14}{15}$ by 5 and then by $\frac{1}{7}$.
	2. Dividing $\frac{14}{15}$ by 5, and then multiplying by $\frac{1}{7}$.
	3. Multiplying $\frac{14}{15}$ by 7, and then multiplying by $\frac{1}{5}$.
	4. Multiplying $\frac{14}{15}$ by 5 and then dividing by 7.
	5. Multiplying $\frac{15}{14}$ by 7 and then dividing by 5.
2. 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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1. Find the value of $\frac{15}{4}÷\frac{5}{8}$. Show your reasoning.
2. Consider the problem: Kiran has $2\frac{3}{4}$ pounds of flour. When he divides the flour into equal-sized bags, he fills $4\frac{1}{8}$ bags. How many pounds fit in each bag?
* Write a multiplication equation and a division equation to represent the question. Then, find the answer and show your reasoning.
1. Divide $4\frac{1}{2}$ by each of these unit fractions.
	1. $\frac{1}{8}$
	2. $\frac{1}{4}$
	3. $\frac{1}{6}$
* (From Unit 4, Lesson 10.)
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 4, Lesson 9.)
1. Elena and Noah are each filling a bucket with water. Noah’s bucket is $\frac{2}{5}$ full and the water weighs $2\frac{1}{2}$ pounds. How much does Elena’s water weigh if her bucket is full and her bucket is identical to Noah’s?
	1. Write multiplication and division equations to represent the question.
	2. Draw a diagram to show the relationship between the quantities and to find the answer.
* (From Unit 4, Lesson 8.)



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