## Unit 3 Lesson 7 Cumulative Practice Problems

1. Priya is sharing 24 apples equally with some friends. She uses division to determine how many people can have a share if each person gets a particular number of apples. For example, $24÷4=6$ means that if each person gets 4 apples, then 6 people can have apples. Here are some other calculations:
* $24÷4=6$
* $24÷2=12$
* $24÷1=24$
* $24÷\frac{1}{2}=?$
	1. Priya thinks the “?” represents a number less than 24. Do you agree? Explain or show your reasoning.
	2. In the case of $24÷\frac{1}{2}=?$, how many people can have apples?
1. Find the value of $\frac{15}{4}÷\frac{5}{8}$. Show your reasoning.
2. Divide $4\frac{1}{2}$ by each of these unit fractions.
	1. $\frac{1}{8}$
	2. $\frac{1}{4}$
	3. $\frac{1}{6}$
3. 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. 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 3, Lesson 5.)
1. Calculate each percentage mentally.
	1. 25% of 400
	2. 50% of 90
	3. 75% of 200
	4. 10% of 8,000
	5. 5% of 20
* (From Unit 2, Lesson 23.)



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