### Lesson 4 Practice Problems

1. Consider the problem: A shopper buys cat food in bags of 3 lbs. Her cat eats $\frac{3}{4}$ lb each week. How many weeks does one bag last?
	1. Draw a diagram to represent the situation and label your diagram so it can be followed by others. Answer the question.
	2. Write a multiplication or division equation to represent the situation.
	3. Multiply your answer in the first question (the number of weeks) by $\frac{3}{4}$. Did you get 3 as a result? If not, revise your previous work.
2. Use the diagram to answer the question: How many $\frac{1}{3}$s are in $1\frac{2}{3}$? The hexagon represents 1 whole. Explain or show your reasoning.
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1. Which question can be represented by the equation $?⋅\frac{1}{8}=3$?
	1. How many 3s are in $\frac{1}{8}$?
	2. What is 3 groups of $\frac{1}{8}$?
	3. How many $\frac{1}{8}$s are in 3?
	4. What is $\frac{1}{8}$ of 3?
2. Write two division equations for each multiplication equation.
	1. $15⋅\frac{2}{5}=6$
	2. $6⋅\frac{4}{3}=8$
	3. $16⋅\frac{7}{8}=14$
3. Noah and his friends are going to an amusement park. The total cost of admission for 8 students is $100, and all students share the cost equally. Noah brought $13 for his ticket. Did he bring enough money to get into the park? Explain your reasoning.
* (From Unit 4, Lesson 2.)
1. Write a division expression with a quotient that is:
	1. greater than $8÷0.001$
	2. less than $8÷0.001$
	3. between $8÷0.001$ and $8÷\frac{1}{10}$
* (From Unit 4, Lesson 1.)
1. Find each unknown number.
	1. 12 is 150% of what number?
	2. 5 is 50% of what number?
	3. 10% of what number is 300?
	4. 5% of what number is 72?
	5. 20 is 80% of what number?
* (From Unit 3, Lesson 14.)



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