## Unit 3 Lesson 2 Cumulative Practice Problems

1. Twenty pounds of strawberries are being shared equally by a group of friends. The equation $20÷5=4$ represents the division of strawberries.
	1. If the 5 represents the number of people, what does the 4 represent?
	2. If the 5 represents the pounds of strawberries per person, what does the 4 represent?
2. A sixth-grade science club needs $180 to pay for the tickets to a science museum. All tickets cost the same amount.
* What could $180÷15$ mean in this situation? Describe two different possible meanings of this expression. Then, find the quotient and explain what it means in each case.
1. Write a division or multiplication equation that represents each situation. Use a “?” for the unknown quantity.
	1. 2.5 gallons of water are poured into 5 equally sized bottles. How much water is in each bottle?
	2. A large bucket of 200 golf balls is divided into 4 smaller buckets. How many golf balls are in each small bucket?
	3. Sixteen socks are put into pairs. How many pairs are there?
2. Consider the problem: Mai has $36 to spend on movie tickets. Each movie ticket costs $4.50. How many tickets can she buy?
	1. Write a multiplication equation and a division equation to represent this situation.
	2. Find the answer. Draw a diagram, if needed.
	3. Use the multiplication equation to check your answer.
3. Kiran said that this diagram can show the solution to $16÷8=?$ or $16÷2=?$, depending on how we think about the equations and the “?”.
* Explain or show how Kiran is correct.
* 
1. Complete the table. Write each percentage as a percent of 1.

|  |  |  |
| --- | --- | --- |
| * fraction
 | * decimal
 | * percentage
 |
| * $\frac{1}{4}$
 | * 0.25
 | * 25% of 1
 |
|  | * 0.1
 |  |
|  |  | * 75% of 1
 |
| * $\frac{1}{5}$
 |  |  |
|  | * 1.5
 |  |
|  |  | * 140% of 1
 |

* (From Unit 2, Lesson 23.)
1. Mini muffins cost $3.00 per dozen.
	* Andre says, “I have $2.00, so I can afford 8 muffins.”
	* Elena says, “I want to get 16 muffins, so I’ll need to pay $4.00."
* Do you agree with either of them? Explain your reasoning.
* (From Unit 2, Lesson 18.)



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