### Lesson 1 Practice Problems

1. Here is an equation: $x+4=17$
	1. Draw a tape diagram to represent the equation.
	2. Which part of the diagram shows the quantity $x$? What about 4? What about 17?
	3. How does the diagram show that $x+4$ has the same value as 17?
2. Diego is trying to find the value of $x$ in $5⋅x=35$. He draws this diagram but is not certain how to proceed.
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* 1. Complete the tape diagram so it represents the equation $5⋅x=35$.
	2. Find the value of $x$.
1. Match each equation to one of the two tape diagrams.
	1. $x+3=9$
	2. $3⋅x=9$
	3. $9=3⋅x$
	4. $3+x=9$
	5. $x=9−3$
	6. $x=9÷3$
	7. $x+x+x=9$
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1. For each equation, draw a tape diagram and find the unknown value.
	1. $x+9=16$
	2. $4⋅x=28$
2. A shopper paid $2.52 for 4.5 pounds of potatoes, $7.75 for 2.5 pounds of broccoli, and $2.45 for 2.5 pounds of pears. What is the unit price of each item she bought? Show your reasoning.
* (From Unit 3, Lesson 20.)
1. A sports drink bottle contains 16.9 fluid ounces. Andre drank 80% of the bottle. How many fluid ounces did Andre drink? Show your reasoning.
* (From Unit 2, Lesson 23.)
1. The daily recommended allowance of calcium for a sixth grader is 1,200 mg. One cup of milk has 25% of the recommended daily allowance of calcium. How many milligrams of calcium are in a cup of milk? If you get stuck, consider using the double number line.
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* (From Unit 2, Lesson 20.)



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