

Lesson 1 Practice Problems

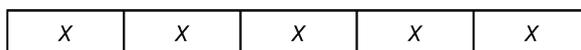
1. Here is an equation: $x + 4 = 17$

a. Draw a tape diagram to represent the equation.

b. Which part of the diagram shows the quantity x ? What about 4? What about 17?

c. 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 $5 \cdot x = 35$. He draws this diagram but is not certain how to proceed.



a. Complete the tape diagram so it represents the equation $5 \cdot x = 35$.

b. Find the value of x .

3. Match each equation to one of the two tape diagrams.

a. $x + 3 = 9$

b. $3 \cdot x = 9$

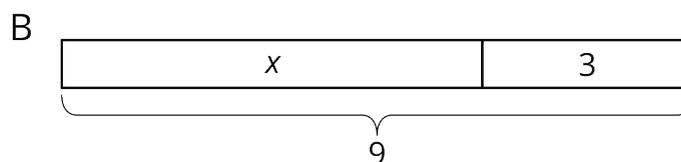
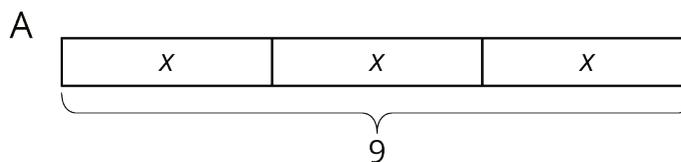
c. $9 = 3 \cdot x$

d. $3 + x = 9$

e. $x = 9 - 3$

f. $x = 9 \div 3$

g. $x + x + x = 9$



4. For each equation, draw a tape diagram and find the unknown value.

a. $x + 9 = 16$

b. $4 \cdot x = 28$

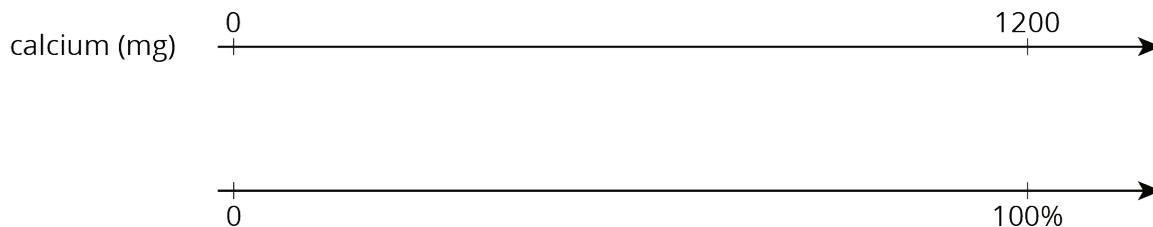
5. A shopper paid \$2.52 for 4.5 pounds of potatoes, \$7.75 for 2.5 pounds of broccoli, and \$2.45 for 2.5 pounds of pears. What is the unit price of each item she bought? Show your reasoning.

(From Unit 5, Lesson 13.)

6. 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 3, Lesson 14.)

7. 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.



(From Unit 3, Lesson 11.)