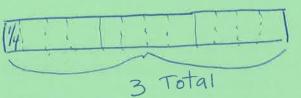
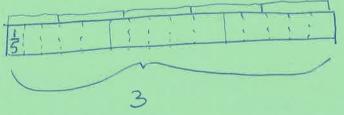
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## Unit 4, Lesson 6: Using Diagrams to Find the Number of Groups

1. We can think of  $3 \div \frac{1}{4}$  as the answer to the question "How many groups of  $\frac{1}{4}$  are in 3?" Draw a tape diagram to represent the question. Then answer the question.



2. Describe how to draw a tape diagram to represent and answer  $3 \div \frac{3}{5} = ?$  for a friend who was absent.



· get 5 groups of 3

- 3. How many groups of  $\frac{1}{2}$  days are in 1 week?
  - a. Write a multiplication equation or a division equation to represent the question.
  - b. Draw a tape diagram to show the relationship between the quantities and to answer the question. Use graph paper, if needed.

14/2 days in 7days



- 4. Diego said that the answer to the question "How many groups of  $\frac{5}{6}$  are in 1?" is  $\frac{6}{5}$  or  $1\frac{1}{5}$ . Do you agree with his statement? Explain or show your reasoning. with his statement? Explain or show your reasoning.
- 5. Select all equations that can represent the question: "How many groups of  $\frac{4}{5}$  are in 1?"

  More on next page

A. 
$$? \cdot 1 = \frac{4}{5}$$

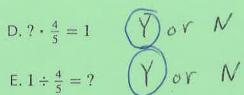
B. 
$$1 \cdot \frac{4}{5} = ?$$

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$$C. \frac{4}{5} \div 1 = ? \qquad \forall \quad \delta \lor \quad \boxed{N}$$

D. 
$$? \cdot \frac{4}{5} = 1$$

E. 
$$1 \div \frac{4}{5} = ?$$



(from Unit 4, Lesson 5)

## 6. Calculate each percentage mentally.

- a. What is 10% of 70?
- b. What is 10% of 110?
- c. What is 25% of 160? = 40
- d. What is 25% of 48? = 12

(from Unit 3, Lesson 14)

f. What is 50% of 350? - 175

g. What is 75% of 300? 
$$75 \cdot 3 + 225$$
  
 $4 = 75$  or  $100 = 30 \times 7 = 216$   
h. What is 75% if 48?  $225$   
 $4 = 12$   $12 \cdot 3 = 8$