



NAME \_\_\_\_\_

DATE \_\_\_\_\_

PERIOD \_\_\_\_\_

## Unit 2, Lesson 9

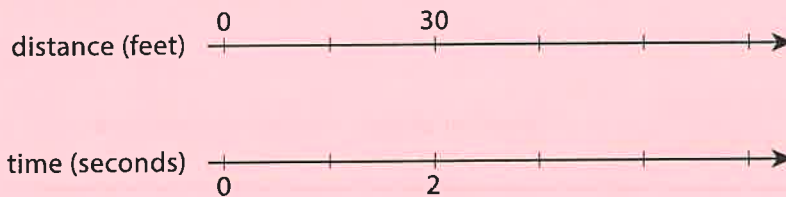
## Practice Problems

17

- Han ran 10 meters in 2.7 seconds. Priya ran 10 meters in 2.4 seconds.
  - Who ran faster? Explain how you know.
  - At this rate, how long would it take each person to run 50 meters? Explain or show your reasoning.

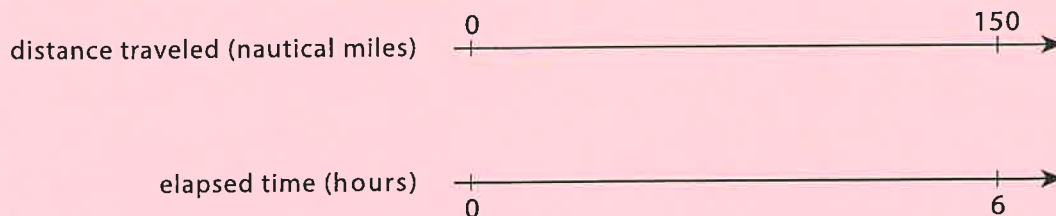
12

- A scooter travels 30 feet in 2 seconds at a constant speed.



- What is the speed of the scooter in feet per second?
  - Complete the double number line to show the distance the scooter travels after 1, 3, 4, and 5 seconds.
  - A skateboard travels 55 feet in 4 seconds. Is the skateboard going faster, slower, or the same speed as the scooter?
- A cargo ship traveled 150 nautical miles in 6 hours at a constant speed. How far did the cargo ship travel in one hour?

13



11

- A recipe for pasta dough says, "Use 150 grams of flour per large egg." *Next page*



NAME \_\_\_\_\_

DATE \_\_\_\_\_

PERIOD \_\_\_\_\_

- a. How much flour is needed if 6 large eggs are used?  
b. How many eggs are needed if 450 grams of flour are used?

1/2

5. The grocery store is having a sale on frozen vegetables. 4 bags are being sold for \$11.96.  
At this rate, what is the cost of:

- a. 1 bag  
b. 9 bags

1/2

6. A pet owner has 5 cats. Each cat has 2 ears and 4 paws.

- a. Complete the double number line to show the numbers of ears and paws for 1, 2, 3, 4, and 5 cats.

number of ears  $\xrightarrow{0}$ 

- b. If there are 3 cats in the room, what is the ratio of ears to paws?

number of paws  $\xrightarrow{0}$ 

4

- c. If there are 4 cats in the room, what is the ratio of paws to ears?  
d. If all 5 cats are in the room, how many more paws are there than ears?

7. Each of these is a pair of equivalent ratios. For each pair, explain why they are equivalent ratios or draw a representation that shows why they are equivalent ratios. (Table, Number Line, Math)

- a. 5 : 1 and 15 : 3  
b. 25 : 5 and 10 : 2  
c. 198 : 1,287 and 2 : 13

1/3