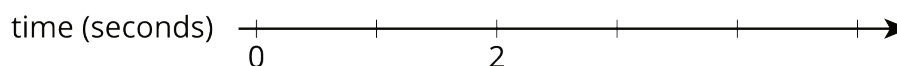
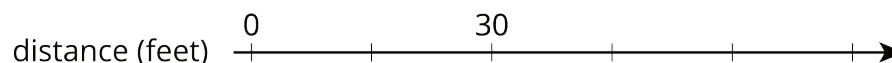


Lesson 9 Practice Problems

1. Han ran 10 meters in 2.7 seconds. Priya ran 10 meters in 2.4 seconds.

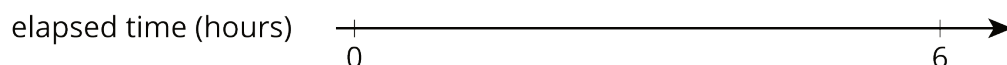
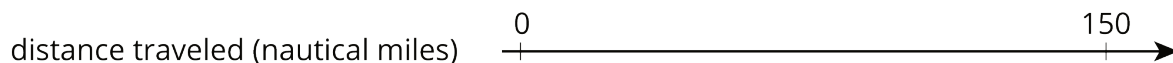
- Who ran faster? Explain how you know.
- At this rate, how long would it take each person to run 50 meters? Explain or show your reasoning.

2. 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?

3. A cargo ship traveled 150 nautical miles in 6 hours at a constant speed. How far did the cargo ship travel in one hour?



4. A recipe for pasta dough says, "Use 150 grams of flour per large egg."

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

(From Unit 2, Lesson 3.)

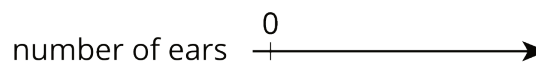
5. The grocery store is having a sale on frozen vegetables. 4 bags are being sold for \$11.96. At this rate, what is the cost of:

- 1 bag
- 9 bags

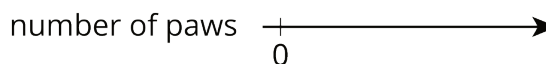
(From Unit 2, Lesson 8.)

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

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



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



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

(From Unit 2, Lesson 7.)

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.

- 5 : 1 and 15 : 3
- 25 : 5 and 10 : 2
- 198 : 1,287 and 2 : 13

(From Unit 2, Lesson 5.)