

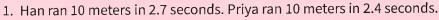
NAME

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Unit 2, Lesson 9

Practice Problems



a. Who ran faster? Explain how you know. Priya Less time for same distance 2.4 2.7 H

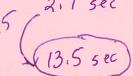
b. At this rate, how long would it take each person to run 50 meters? Explain or show your reasoning.

2.7 sec 10 m

3.4 s 10 m/s 12

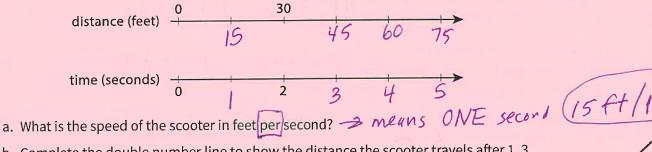
50 k

13.5 sec 50 m





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



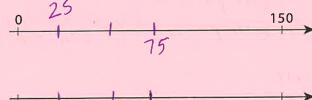
b. Complete the double number line to show the distance the scooter travels after 1, 3,

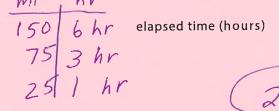
see above 4, and 5 seconds.

c. A skateboard travels 55 feet in 4 seconds. Is the skateboard going faster, slower, or Slower 55 ft 60 ft 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?

distance traveled (nautical miles)







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

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a. How much flour is needed if 6 large eggs are used? 150%900gF

B. How many eggs are needed if 450 grams of flour are used?

Think 450 is half of 900 in 900%900PATE

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150 150%900gF

150 150

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 $2.99 \times 9 = 11.96$ $2.99 \times 9 \times 9 = 11.96$ 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.
- b. If there are 3 cats in the room, what is the ratio of ears to paws? 6:12
- number of ears 0 1 1 1 1 1
- number of paws 0 4 8 12 16 20
- /
- 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?

many more paws are there than ears?

20-10=10 more

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, a. 5: 1 and 15: 3 both parts × 3

a. 5: 1 and 15: 3 both parts × 3

b. 25: 5 and 10: 2 both parts + 2/2 or multiply by = 6 1 2 3 4 5

or both are 501 = 6 1 2 3 4 5

b. 25:5 and 10:2 both parts or both are 5:1

c. 198:1,287 and 2:13