Proportional Relationships, Tables, and Equations

1 EXPLORE Discovering Proportional Relationships

A giant tortoise moves at a slow but steady pace. It takes the giant tortoise 3 seconds to travel 10.5 inches.

A Use the bar diagram to help you determine how many inches a tortoise travels in 1 second. What operation did you use to find the answer?



B Complete the table.

Time (sec)	1	2	3	4	5
Distance (in.)			10.5		
For each column of the table, find the ratio of the	Distance	Distance	Distance	Distance	Distance
distance to the time. Write each ratio in simplest	=	=	=	=	=

Time

Time

Time

D What do you notice about the ratios?

Time

E Conjecture How do you think the distance a tortoise travels is related to the time?

Time

REFLECT

form.

- 1a. Suppose the tortoise travels for 12 seconds. Explain how you could find the distance the tortoise travels.
- 1b. How would you describe the rate or speed at which a tortoise travels?