Constant Speed

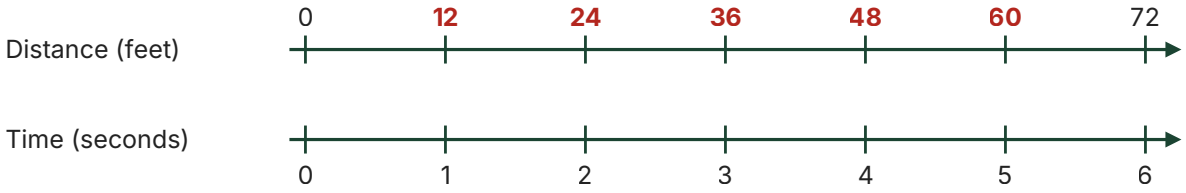
Ratios & Rates • Answer Key

ANSWER KEY • Amplify Alignment: Grade 6 Accelerated, Unit 2, Lesson 15

1. A skateboarder traveled 72 feet in 6 seconds at a constant speed.

a What was the speed of the skateboarder in feet per second? **12 feet per second**

b Fill in the missing values on the double number line.



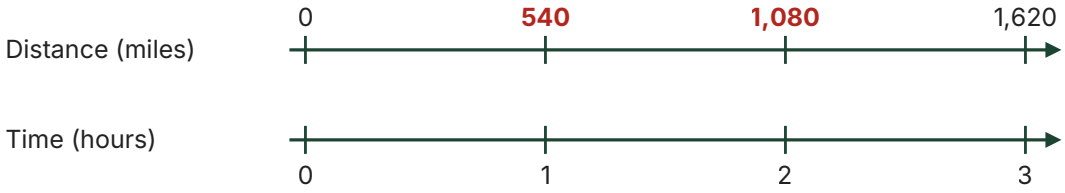
c A scooter traveled 50 feet in 5 seconds at a constant speed. Which traveled faster, the skateboard or the scooter? Explain your thinking.

The skateboard. It traveled 12 feet per second; the scooter traveled 50 ÷ 5 = 10 feet per second.

2. A plane traveled 1,620 miles in 3 hours at a constant speed.

a What was the speed of the plane in miles per hour? **540 miles per hour**

b Fill in the missing values on the double number line.



c At this rate, how far could the plane travel in 5 hours? **2,700 miles**

3. A bus traveled 195 miles in 3 hours at a constant speed. What was its speed in miles per hour?

65 miles per hour

4. Determine the unit rate for each situation.

a A car traveled 330 miles in 6 hours at a constant speed. 55 miles per hour

b A hiker walked 18 miles in 6 hours at a constant speed. 3 miles per hour

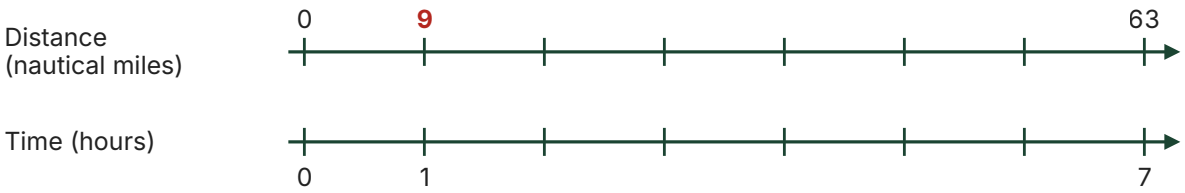
c A runner ran 52.5 meters in 15 seconds at a constant speed. 3.5 meters per second

5. A ferry traveled 96 miles in 4 hours at a constant speed.

a How many miles did the ferry travel in one hour? 24 miles

b At this rate, how far could the ferry travel in 7 hours? 168 miles

6. A sailboat traveled 63 nautical miles in 7 hours at a constant speed. How far did it travel in one hour? Use the double number line if it helps.



Answer: 9 nautical miles

7. Two cars travel at constant speeds. Which car is faster? Show or explain your thinking.

	Distance (m)	Time (s)
Car A	600	30
Car B	450	25

Car A: 600 ÷ 30 = 20 m/s. Car B: 450 ÷ 25 = 18 m/s. Car A is faster.

8. A helicopter flies 690 miles in 5 hours at a constant speed. Dana claims it flies 145 miles per hour. Is Dana correct? Explain your thinking.

No. 690 ÷ 5 = 138 miles per hour.