

Distance, Rate, and Time

Find the missing variable.

1. Distance = 15 mi time = 2h rate = _____

2. Distance = 56 km time = 4 h rate = _____

3. Distance = 72 yd time = _____ rate = $\frac{12 \text{ yd}}{\text{min}}$

4. Distance = 27 cm time = _____ rate = $\frac{3 \text{ cm}}{\text{sec}}$

5. Distance = _____ time = 2 d rate = $\frac{5,000 \text{ m}}{\text{d}}$

6. Distance = _____ time = 6 wk rate = $\frac{80 \text{ ft}}{\text{wk}}$

7. The California Speedway hosts automobile races. Which rate of speed is higher: a car completing a 500-mi race in about $3\frac{1}{3}$ h or a car completing a 300-mi race in about $2\frac{1}{2}$ h? _____

8. A train traveled 250 mi in 2 h. If it traveled at the same rate of speed, how long would it take the train to travel 600 mi? _____

9. The space shuttle travels 4,375 mi in 15 min as it orbits the earth. Estimate its average rate of speed during that time to the nearest hundred.

- A About 400 mi per min
- B About 300 mi per min
- C About 60,000 mi per min
- D About 70,000 mi per min

10. **Writing to Explain** Kevin drove his scooter 62 km in 2 h. Explain how to find how far he drives if he drives at the same rate for 3 h.
