

# Formulas and Equations

Use the formula below to find each distance.

$$\text{distance} = \text{rate} \times \text{time} \quad d = r \times t$$

1.  $r = 55$  miles per hour  
 $t = 6$  hours
2.  $r = 400$  kilometers per day  
 $t = 4$  days

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3.  $r = 32$  centimeters per minute  
 $t = 17$  minutes
4.  $r = 8$  feet per second  
 $t = 22$  seconds

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Use the formula below to find the perimeter of each square.

$$\text{Perimeter} = 4 \times \text{length of a side} \quad P = 4 \times s.$$

5.  $s = 5$  yards
6.  $s = 9$  meters

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7.  $s = 26$  feet
8.  $s = 19$  inches

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9. The length of a rectangle is 14 feet and the width is 7 feet. Use the following formula to find the area of the rectangle.

$$\text{Area} = \text{length} \times \text{width} \quad A = \ell \times w$$

- A 21 square feet
- B 42 square feet
- C 98 square feet
- D 196 square feet

10. **Number Sense** A snail crawled for 40 seconds at an average speed of 15 millimeters per second. Explain how to find the distance the snail traveled in centimeters.

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