Name _____

Reteaching
18-1

Formulas and Equations

You can use a formula to solve problems about distance.

Marco drove for 4 hours at an average speed of 53 miles per hour. How far did he travel?

Use the formula distance = rate × time.

$d = r \times t$	Find the values for r and t in the problem. Substitute them into the formula to find d.
$d = 53 \times 4$	
$d = 212$	

Marco traveled 212 miles.

Find the distance for the given values of r and t.

1. $r = 25$ miles per hour
$t = 3$ hours

_____

2. $r = 600$ feet per minute
$t = 10$ minutes

_____

3. $r = 20$ kilometers per hour
$t = 4$ hours

_____

4. $r = 15$ inches per second
$t = 35$ seconds

_____

5. $r = 550$ miles per hour
$t = 6$ hours

_____

6. $r = 250$ miles per day
$t = 7$ days

_____

Use the formula $P = (2 \times \ell) + (2 \times w)$ to find the perimeter of each rectangle.

7. $\ell = 11$ inches
$w = 5$ inches

_____

8. $\ell = 18$ meters
$w = 13$ meters

_____

9. Writing to Explain A deer ran for 4 minutes at an average speed of 2,000 feet per minute. An ostrich ran for 3 minutes at an average speed of 3,000 feet per minute. Which animal ran a greater distance?

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