

# Translating for Success

1. *Perimeter.* A rectangular garden is 35 ft long and 27 ft wide. How many feet of fencing is needed to surround the garden?

2. *Craft Sale.* Marissa sold crocheted mittens at a craft sale. She sold 35 pairs on Friday and 27 pairs on Saturday. What was the mean number of pairs of mittens sold each day?

→ average

3. *Jogging.* David must jog 2 mi a day for training for basketball. If the alley behind his house is  $\frac{1}{5}$  mi long, how many times must he run the length of the alley?

4. *Taxi Fare.* A taxi driver charges \$2.25 plus 95 cents a mile. How far can Tonya travel on \$11.75?

5. *Fudge.* Amber made  $3\frac{1}{2}$  lb of fudge and divided it evenly among 3 packages for gifts. How much fudge was in each package?

The goal of these matching questions is to practice step (2), *Translate*, of the problem-solving process. Translate each word problem to an equation and select a correct translation from equations A–O.

A.  $x = 2 \div \frac{1}{5}$

B.  $x = 4 + (-8)$

C.  $x = 3 \cdot 3\frac{1}{2}$

D.  $x = 4 - (-8)$

E.  $35 + 27 = x$

F.  $x = 2 \cdot 35 + 2 \cdot 27$

G.  $x = 3\frac{1}{2} \div 3$

H.  $x = 248 \div 15\frac{5}{10}$

I.  $x = 3 + 3\frac{1}{2}$

J.  $x = 2 \cdot \frac{1}{5}$

K.  $35 \cdot 27 = x$

L.  $2.25 + 0.95 + x = 11.75$

M.  $248 \div x = 15\frac{5}{10}$

N.  $x = \frac{35 + 27}{2}$

O.  $2.25 + 0.95x = 11.75$

Answers on page A-18

6. *Temperature.* The weather forecast for the low temperature in Muncy on December 14 was  $4^{\circ}\text{F}$ . The actual low was  $-8^{\circ}\text{F}$ . How many degrees lower than the forecast was the actual temperature?

7. *Pizza Recipe.* A recipe for pizza crust calls for  $3\frac{1}{2}$  cups of flour. How many cups of flour are needed for 3 pizza crusts?

8. *Total Purchase.* Oliver spent \$11.75 at the Country Store. He purchased candy for 95 cents, nuts for \$2.25, and coffee. How much did the coffee cost?

9. *Mileage.* A car traveled 248 mi on  $15\frac{5}{10}$  gal of gas. How many miles per gallon did it get?

10. *Cell Phone Minutes.* On Friday, Lathan made phone calls of lengths 35 min and 27 min. How many minutes did he use?