

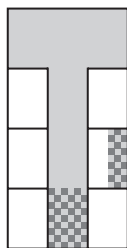
# 3-3 Word Problem Practice

## Multiplying Rational Numbers

**1. SURVEYS** In a school survey, Randy found that  $\frac{5}{12}$  of the students normally wear sneakers, and that  $\frac{8}{25}$  of those who wear sneakers normally wear white sneakers. What fraction of the student body normally wears white sneakers?

**2. MAPS** The Darling Downs Rabbit Board fence was built to prevent the spread of rabbits into southern Queensland, Australia. On a map drawn to a scale of 1 in. =  $70\frac{6}{7}$  m, the fence measures  $8\frac{3}{4}$  inches. How long is the actual fence?

**3. FARMING** A farmer has a 420-acre farm. He planted  $\frac{7}{12}$  of it with corn, but later found that  $\frac{3}{14}$  of the crop was diseased. How many acres of healthy corn did the farmer have?



**4. CONCRETE** A  $62\frac{1}{2}$ -pound bag of concrete mix has  $\frac{3}{5}$  of its weight made up of sand and small stones. The stones make up  $\frac{1}{4}$  of the weight. What is the weight of the stones in the bag of concrete?

**5. DISPLAYS** A wall in a museum measures 3 meters high by 6 meters wide. One quarter of the wall is dedicated to displays.

a. What is the area of the wall that is dedicated to displays?

b. Three paintings, each measuring  $1\frac{3}{4}$  meters high by  $\frac{4}{5}$  meter wide, are hung in the display space. What is the total area of the three paintings?

c. How much of the display area is still available?