

7-1 Practice**Proportions**

- NUTRITION** One ounce of cheddar cheese contains 9 grams of fat. Six of the grams of fat are saturated fats. Find the ratio of saturated fats to total fat in an ounce of cheese.
- FARMING** The ratio of goats to sheep at a university research farm is 4:7. The number of sheep at the farm is 28. What is the number of goats?
- ART** Edward Hopper's oil on canvas painting *Nighthawks* has a length of 60 inches and a width of 30 inches. A print of the original has a length of 2.5 inches. What is the width of the print?

Solve each proportion.

4. $\frac{5}{8} = \frac{x}{12}$

5. $\frac{x}{1.12} = \frac{1}{5}$

6. $\frac{6x}{27} = \frac{4}{3}$

7. $\frac{x+2}{3} = \frac{8}{9}$

8. $\frac{3x-5}{4} = \frac{-5}{7}$

9. $\frac{x-2}{4} = \frac{x+4}{2}$

Find the measures of the sides of each triangle.

- The ratio of the measures of the sides of a triangle is 3:4:6, and its perimeter is 104 feet.
- The ratio of the measures of the sides of a triangle is 7:9:12, and its perimeter is 84 inches.
- The ratio of the measures of the sides of a triangle is 6:7:9, and its perimeter is 77 centimeters.

Find the measures of the angles in each triangle.

- The ratio of the measures of the angles is 4:5:6.
- The ratio of the measures of the angles is 5:7:8.
- BRIDGES** The span of the Benjamin Franklin suspension bridge in Philadelphia, Pennsylvania, is 1750 feet. A model of the bridge has a span of 42 inches. What is the ratio of the span of the model to the span of the actual Benjamin Franklin Bridge?