

**LESSON**  
**3.5**
**Practice A**
*For use with pages 162–167*
**Tell whether the ratio is in simplest form. If not, write it in simplest form.**

1. 15 to 27

2. 7 : 18

3.  $\frac{11}{55}$

4. 16 to 5

5. 18 : 3

6.  $\frac{42}{14}$

**Solve the proportion.**

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

8.  $\frac{1}{5} = \frac{m}{30}$

9.  $\frac{5}{20} = \frac{a}{4}$

10.  $\frac{p}{18} = \frac{4}{9}$

11.  $\frac{w}{15} = \frac{2}{5}$

12.  $\frac{4}{3} = \frac{y}{12}$

13.  $\frac{3}{6} = \frac{z}{14}$

14.  $\frac{6}{8} = \frac{c}{12}$

15.  $\frac{n}{8} = \frac{9}{12}$

**Match the sentence with its proportion. Then solve the proportion.**

16. 7 is to 4 as  $x$  is to 6.

17. 6 is to  $x$  as 4 is to 7.

18.  $x$  is to 7 as 4 is to 6.

A.  $\frac{x}{7} = \frac{4}{6}$

B.  $\frac{7}{4} = \frac{x}{6}$

C.  $\frac{6}{x} = \frac{4}{7}$

**19. Rainy Days** Last year, it rained 18 days during a 90-day period.

- Find the ratio of the number of rainy days to the total number of days in the period.
- Find the ratio of the number of days it didn't rain to the total number of days in the period.
- Find the ratio of the number of rainy days to the number of days it didn't rain.

**20. Vegetable Garden** You are planting the following vegetables in your vegetable garden.

Plant	Tomato	Pepper	Bean
Number of plants	8	6	4

- Find the ratio of the number of bean plants to the number of tomato plants.
  - Find the ratio of the number of tomato plants to the number of bean and pepper plants.
  - Find the ratio of the number of pepper plants to the number of all plants.
- 21. Typing** You can type 2 pages of a paper in 30 minutes. How many pages can you type in 3 hours (180 minutes)?
- 22. Invitations** You are making party invitations by hand. It has taken you 45 minutes to make 6 cards. If you continue at this rate, how many cards can you make in 2 hours (120 minutes)?