

LESSON
2.7

Practice A

For use with the lesson "Solve Proportions Using Cross Products"

Write the proportion in the form $a : b = c : d$. Then name the means and extremes of the proportion.

1. $\frac{4}{11} = \frac{20}{55}$

2. $\frac{18}{14} = \frac{9}{7}$

3. $\frac{25}{57} = \frac{50}{114}$

Name the cross products of the proportion.

4. $\frac{x}{15} = \frac{24}{45}$

5. $\frac{1.5}{3.5} = \frac{m}{7}$

6. $\frac{c}{70} = \frac{4}{7}$

7. $\frac{18}{x} = \frac{90}{100}$

8. $\frac{3}{19} = \frac{33}{a}$

9. $\frac{6}{7} = \frac{p+4}{21}$

Solve the proportion.

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

11. $\frac{6}{m} = \frac{30}{40}$

12. $\frac{7}{3} = \frac{56}{a}$

13. $\frac{70}{p} = \frac{10}{9}$

14. $\frac{15}{1} = \frac{30}{c}$

15. $\frac{1}{w} = \frac{80}{240}$

16. $\frac{16}{45} = \frac{32}{d}$

17. $\frac{88}{z} = \frac{11}{8}$

18. $\frac{60}{b} = \frac{15}{16}$

19. $\frac{3x}{4} = \frac{12}{16}$

20. $\frac{5y}{13} = \frac{15}{39}$

21. $\frac{2n}{14} = \frac{9}{7}$

- 22. Printing Pictures** Your digital camera printer printed 5 pictures in 7.5 minutes. At this rate, how long will it take you to print 18 pictures?
- 23. Stenciling** You are stenciling letters on posters for an upcoming school dance. It takes you about 4 minutes to stencil 3 letters. At this rate, how long will it take you to stencil "Homecoming Dance" on 10 posters?
- 24. CD Cover Art** You burned a CD of your music and then created an artistic CD label for it. Your friends liked it so much that they all asked if you would make CD labels for the CDs of their music. So far, it has taken you 6.5 hours to create 3 CD labels. How long will it take to create 4 more labels? Round your answer to the nearest tenth.

A map has a scale of 1 cm : 15 km. Use the given map distance to find the actual distance.

25. 4 cm

26. 2.5 cm

27. 7 cm

- 28. Model Dam** You created a model of the Grand Coulee Dam, located in the state of Washington, using a scale of 1 cm : 20 m. Your model is 15 centimeters tall. Estimate the actual height of the Grand Coulee Dam.