

**3-6 Practice****Ratios and Proportions**

Use cross products to determine whether each pair of ratios forms a proportion.

Write yes or no.

1.  $\frac{7}{6}, \frac{52}{48}$

4.  $\frac{12}{11}, \frac{108}{99}$

7.  $\frac{3.4}{5.2}, \frac{7.14}{10.92}$

2.  $\frac{3}{11}, \frac{15}{66}$

5.  $\frac{8}{9}, \frac{72}{81}$

8.  $\frac{1.7}{1.2}, \frac{2.9}{2.4}$

3.  $\frac{18}{24}, \frac{36}{48}$

6.  $\frac{1.5}{9}, \frac{1}{6}$

9.  $\frac{7.6}{1.8}, \frac{3.9}{0.9}$

SHOW  
your  
cross-  
products

LOOK

SHOW  
WORK!

ALL WORK  
ON  
LOOSELEAF!

LOOK

Solve each proportion. If necessary, round to the nearest hundredth.

10.  $\frac{5}{a} = \frac{30}{54}$

13.  $\frac{28}{49} = \frac{4}{w}$

16.  $\frac{2}{y} = \frac{10}{60}$

19.  $\frac{6}{61} = \frac{12}{h}$

22.  $\frac{7}{9} = \frac{8}{c}$

25.  $\frac{v}{0.23} = \frac{7}{1.61}$

28.  $\frac{7}{a-4} = \frac{14}{6}$

31.  $\frac{5}{12} = \frac{x+1}{4}$

11.  $\frac{v}{46} = \frac{34}{23}$

14.  $\frac{3}{u} = \frac{27}{162}$

17.  $\frac{5}{11} = \frac{35}{x}$

20.  $\frac{g}{16} = \frac{6}{4}$

23.  $\frac{3}{q} = \frac{5}{6}$

26.  $\frac{3}{0.72} = \frac{12}{b}$

29.  $\frac{3}{12} = \frac{2}{y+6}$

32.  $\frac{r+2}{7} = \frac{5}{7}$

12.  $\frac{40}{56} = \frac{k}{7}$

15.  $\frac{y}{3} = \frac{48}{9}$

18.  $\frac{3}{51} = \frac{z}{17}$

21.  $\frac{14}{49} = \frac{2}{a}$

24.  $\frac{m}{6} = \frac{5}{8}$

27.  $\frac{6}{n} = \frac{3}{0.51}$

30.  $\frac{m-1}{8} = \frac{2}{4}$

33.  $\frac{3}{7} = \frac{x-2}{6}$

use  
cross-  
products!

- 34. PAINTING** Ysidra paints a room that has 400 square feet of wall space in  $2\frac{1}{2}$  hours. At this rate, how long will it take her to paint a room that has 720 square feet of wall space?

- 35. VACATION PLANS** Walker is planning a summer vacation. He wants to visit Petrified National Forest and Meteor Crater, Arizona, the 50,000-year-old impact site of a large meteor. On a map with a scale where 2 inches equals 75 miles, the two areas are about  $1\frac{1}{2}$  inches apart. What is the distance between Petrified National Forest and Meteor Crater?