

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

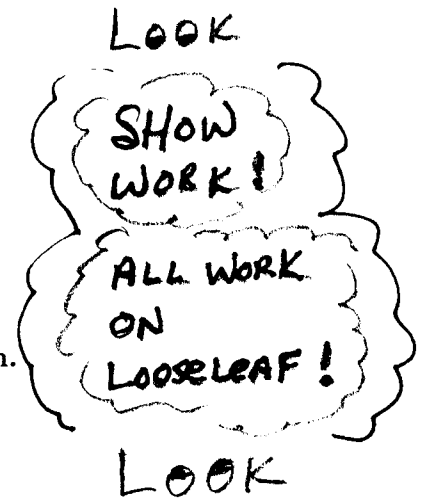
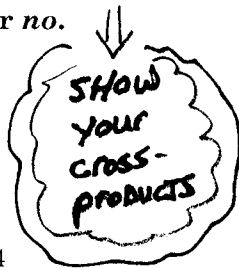
5. $\frac{8}{9}, \frac{72}{81}$

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



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



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?