2-6 Practice

Ratios and Proportions

Determine whether each pair of ratios are equivalent ratios. Write *yes* or *no*.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

22. $\dfrac{7}{9} = \dfrac{8}{t}$

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

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

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

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

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

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

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

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

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

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

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

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?