

2-6**Classwork****Ratios and Proportions**

Use cross products to determine whether each pair of ratios forms a proportion. Write *yes* or *no*.

1. $\frac{4}{5}, \frac{20}{25}$

2. $\frac{5}{9}, \frac{7}{11}$

3. $\frac{6}{7}, \frac{24}{28}$

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

5. $\frac{7}{16}, \frac{42}{90}$

6. $\frac{13}{19}, \frac{26}{38}$

7. $\frac{3}{14}, \frac{21}{98}$

8. $\frac{12}{17}, \frac{50}{85}$

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

9. $\frac{1}{a} = \frac{2}{14}$

10. $\frac{5}{b} = \frac{3}{9}$

13. $\frac{6}{z} = \frac{3}{5}$

14. $\frac{5}{e} = \frac{35}{21}$

17. $\frac{42}{56} = \frac{6}{f}$

18. $\frac{7}{b} = \frac{1}{9}$

21. $\frac{9}{c} = \frac{27}{39}$

22. $\frac{5}{12} = \frac{20}{g}$

25. BOATING Hue's boat used 5 gallons of gasoline in 4 hours. At this rate, how many gallons of gasoline will the boat use in 10 hours?