

Equal Ratios and Proportions

Write three ratios that are equal to the ratio given.

1. $\frac{8}{10}$ _____ 2. $\frac{2}{3}$ _____ 3. $\frac{3}{4}$ _____

4. 21 to 18 _____ 5. 5 to 4 _____ 6. 1 to 3 _____

7. 14:16 _____ 8. 2:4 _____ 9. 2:5 _____

Write = if the ratios form a proportion; if they do not form a proportion, write \neq .

10. 3:12 | 6:24 _____ 11. $\frac{14}{16}$ | $\frac{7}{4}$ _____ 12. 4 to 20 | 1 to 4 _____

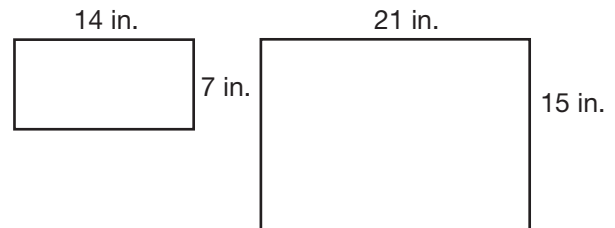
Find the number that makes the ratios equivalent.

13. $\frac{8}{9} =$ _____ /36 14. 15:18 = 5: _____ 15. _____ to 7 = 9 to 21

Write the ratios in simplest form.

16. $\frac{42}{28}$ _____ 17. 21 to 36 _____ 18. 15:45 _____

19. $\frac{35}{25}$ _____ 20. 60 to 30 _____ 21. 10:40 _____

22. Writing to Explain Tell why you cannot multiply or divide by zero to find equal ratios.**23. Geometry** Is the ratio of length to width for these two rectangles proportional? Tell how you know.**24. Algebra** Which value for x would make the ratios equivalent?

$$\frac{3}{8} = \frac{x}{32}$$

A $x = 4$

B $x = 6$

C $x = 8$

D $x = 12$