

Name \_\_\_\_\_

# Equivalent Ratio

## Cross-Multiplication to Verify Equivalent Ratios.

Are the ratios 12:16 and 3:4 equivalent? Verify using cross-multiplication.

$$\begin{array}{r} 12 \\ \hline 16 \end{array} \begin{array}{l} \rightarrow 3 \\ \rightarrow 4 \end{array}$$

Yes, because  $12 \times 4 = 48$  and  $16 \times 3 = 48$ .  
Since  $48 = 48$ , the ratios are equivalent.

- 1) Are the ratios 6:9 and 2:3 equivalent? Yes
- 2) Are the ratios 12:16 and 3:4 equivalent? Yes
- 3) Are the ratios 5:8 and 15:24 equivalent? Yes
- 4) Are the ratios 18:27 and 2:3 equivalent? Yes
- 5) Are the ratios 21:28 and 3:4 equivalent? Yes
- 6) Are the ratios 25:30 and 5:6 equivalent? Yes
- 7) Are the ratios 14:21 and 2:3 equivalent? Yes
- 8) Are the ratios 8:12 and 2:4 equivalent? No
- 9) Are the ratios 10:15 and 2:3 equivalent? Yes
- 10) Are the ratios 18:24 and 4:5 equivalent? No
- 11) Are the ratios 16:24 and 2:3 equivalent? Yes
- 12) Are the ratios 22:33 and 2:4 equivalent? No
- 13) Are the ratios 15:20 and 3:4 equivalent? Yes
- 14) Are the ratios 9:12 and 3:5 equivalent? No
- 15) Are the ratios 20:30 and 2:3 equivalent? Yes