

Ratio / Unit Rate and Cost

Ratio: comparison of two quantities a, and b

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|-----------------|----------------|------------------------------|
| ① a to b | Boys to girls | |
| ② a:b | 11 to 8 | White socks to colored socks |
| ③ $\frac{a}{b}$ | 11:8 | 14 to 5 |
| | $\frac{11}{8}$ | 14:5 |
| | | $\frac{14}{5}$ |

Equivalent Ratios: Have the same value.

(same as equivalent fractions)

→ To find, multiply or divide both terms by the same number.

54 to 81

$$54:81, \frac{54}{81}$$

equivalent ratios

$$\frac{1}{2} = \frac{4}{8} = \frac{8}{16} = \frac{2}{4} = \frac{25}{50}$$

$$\frac{2}{7} = \frac{4}{14} = \frac{8}{28} = \frac{6}{21}$$

$$1.5 \text{ to } 3.5 = \frac{1.5}{3.5} = \frac{3}{7} = \frac{6}{14} = \frac{12}{28}$$

