

Ratio and proportion



2 : 3



4 : 6



6 : 9



2 : 3

A ratio compares two amounts: 2 of one for every 3 of the other. Scale both by $\times 2$ and $\times 3$ and the bar grows while the ratio stays the same.

Simplify a ratio

$$6 : 9 = 2 : 3$$

divide both parts by 3

Unit rate — per 1

\$6 for 3 tickets

$$6 \div 3 = \$2 \text{ each}$$

Ratio to fraction

$2 : 3 \rightarrow \frac{2}{5}$ of the whole

2 parts out of the 5 in all

Scale both parts by the same number for an equivalent ratio, or divide both to simplify. The amounts change; the ratio does not.