

OLYMPIAD · EVERYDAY MATHEMATICS · OLYMPIAD PREPARATION · FORMULA BANK

Chapter 13: Ratio and Proportion

Every formula and result of the chapter on one sheet

- | | | |
|---|---------------------------------------|---|
| 1 | Sharing in $a : b : c$ | one part = $\frac{\text{total}}{a + b + c}$ |
| 2 | Proportion | $a : b = c : d \iff ad = bc$ |
| 3 | Fourth proportional to a, b, c | $\frac{bc}{a}$ |
| 4 | Mean proportional between a and b | $\sqrt{ab}$ |
| 5 | Direct proportion | $\frac{x_1}{y_1} = \frac{x_2}{y_2}$ |
| 6 | Inverse proportion | $x_1y_1 = x_2y_2$ |