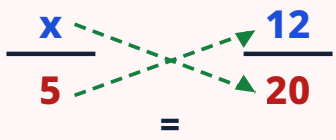
FIBO · CHEAT SHEET

Solving Proportions

Unit 4 · Ratios, Proportions & Chance — the whole lesson on one page. Keep it in your binder.

🖼️ Key picture



x × 20 = 5 × 12 — diagonal pairs only

The green X connects the pairs. Diagonal products that match mean a true proportion — and when one value is x, the equation solves it.

📌 Key points

- Proportion: **a**/**b** = **c**/**d** — two equal ratios
- Cross-multiply **diagonals only**: a × d = b × c, then solve
- Finish the one-step equation — divide, do not stop at 20x = 60
- Units in the **same position** on both sides, always
- Check by plugging back: both fractions must name the same number
- Scaling view: find the factor on the known side, apply it to the other

💡 **One-line pointer:** worked examples, application problems, and blank workspaces live in the companion **proportions-lecture.pdf**.