

RatioRealm — Concept Poster

Print this and pin it up — an at-a-glance map of the RatioRealm cast and the ideas each one carries. Come back to it whenever you want to remember who teaches what.

Spark & Anvil is a 501(c)(3) public charity. Every app, story, and book is free, forever — no ads, no in-app purchases, no tracking. Released under Creative Commons BY-NC-SA 4.0 for educational reuse.

Meet the cast — and what each one teaches

Character	What they carry
Pair the Ratio-Speaker	Simple ratios (a:b) — the foundational "for every A, there are B" pattern
Scale the Doubler	Equivalent ratios (scaling both parts by the same factor; recipe-doubling primitive)
Unit the Per-One-Counter	Rates and unit rates (the per-one normalization that lets us compare different rates)
Cross the Proportion-Solver	Proportions and cross-multiplication (the canonical "if $a/b = c/d$ then $ad = bc$ " mechanic)
Centa the Percent-Translator	Percentages — the per-hundred special case + percent change
Crux the Two-Directions	Direct versus inverse proportion (when one goes up, the other goes up — or down)
Keel the Constant-Keeper	The constant of proportionality (the fixed number that links the two quantities)
Portion the Fair-Divider	Sharing a quantity in a given ratio (splitting fairly by parts)
Splay the Scale-Keeper	Scale factor (scale drawings, maps, and models)
Warp the Part-and-Whole Namer	Part-to-part versus part-to-whole ratios (naming what is compared to what)

Key ideas at a glance

The big concepts this cast helps you master:

- Ratios
- Rates
- Proportions

- Percentages
 - Percentage Applications
 - Scale & Measurement
 - Proportional Reasoning
 - Foundational Concepts Review
 - Applied Problem Solving
 - Critical Analysis & Evaluation
 - Advanced Integration & Synthesis
-

Keep exploring online

- **Play it now:** <https://sparkanvil.org/play/ratiorealm>
- **Meet the cast:** <https://sparkanvil.org/cast/ratiorealm>
- **More free books:** <https://sparkanvil.org/books>