FIBO · CHEAT SHEET

Division Facts & Remainders

Unit 5 · Powers & Roots — the whole lesson on one page. Keep it in your binder.

🖼️ Key picture

six groups of 7 fill 42 — the last 5 cannot fill another 6



47 ÷ 6 = 7 R 5 — check: 7 × 6 + 5 = 47

The bar model: six full groups of 7, then the remainder of 5 sits apart — too small for a seventh group.

📌 Key points

- Division = **"how many full groups?"** — dividend ÷ divisor = quotient R remainder
- The **remainder is always smaller than the divisor** — if it is not, make one more group
- **The check:** quotient × divisor + remainder = dividend (always verify this way)
- Guess the quotient with multiplication: it must satisfy quotient × divisor ≤ dividend
- R 0 means the division is **exact** — no remainder, nothing left over

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