FIBO · CHEAT SHEET

Percent Applications: Discount, Tax, Tip

Unit 3 · Decimals & Percents — the whole lesson on one page. Keep it in your binder.

🖼️ Key picture



Percent change = (change ÷ original) × 100%. Change = new − old. The original — where you started — is always the denominator.

📌 Key points

- **Discount:** discount = p% × price; sale = price − discount. ($80, 25% off → **$60**)
- **Tax / tip:** amount = p% × bill; total = bill + amount. ($45, 8% tax → **$48.60**)
- **Percent change** = (new − old) ÷ old × 100%. ($50 → $65 = **30% increase**)
- **Simple interest:** I = P × r × t. ($200 × 5% × 3 yr = **$30**)
- Tax is charged on the **sale** price — what you actually pay
- **off + paid = 100%** — find one, and you know the other

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