Dosage Calculation

Nursing

One formula covers tablets, liquids and injections once units are matched.

Divide what you want by what you have, then multiply by the volume it comes in.

(Want ÷ Have) × Volume = amount to give

Want 750, have 500/5 mL — **7.5 mL**

(750÷500)×5

Want 0.25 g, have 125 mg — **2 tablets**

0.25 g = 250 mg

Want 40, have 100/mL — **0.4 mL**

Check the syringe size

THE COMMON MISTAKE

× Dividing grams by milligrams.

✓ Converting to one unit, then dividing.

A gram-milligram mix-up is a thousand-fold error, and it is the single most common arithmetic fault in drug calculation practice.

Educational reference. Figures here are hypothetical teaching numbers. Real doses come from the prescription and are independently checked.