# DRUG CALCULATIONS



# **HOW TO SOLVE DRUG CALCULATIONS**

- Identify what type of drug calculation and as a first step, use common sense to estimate a rough answer. In many cases, drawing a picture that visually represents the problem is often a helpful strategy.
- Remember that a formula often used for working out how many tablets to take or for a drug taken orally or injected is:

STRENGTH REQUIRED (SR) VOLUME OF STOCK VOLUME REQUIRED STOCK STRENGTH (SS)

TIP: An easy way to remember this formula is SUMBISE (SR) SUNSET (SS)

Remember that a formula often used to work out the number of drops per minute delivered by an introvenous infusion is:

VOLUME (mL) x DROPS/mL DRIP RATE (DPM) = -TIME (h) x 60

NOTE: DPM stands for drops per minute

Remember that for intravenous infusion, sometimes you are asked to calculate volume, time, or rate, and the following formulae can be useful:

VOLUME (mL) = RATE (mL/h) x TIME (h)

RATE = VOLUME (mL) RATE (mL/h)

After applying the formula (if relevant), or calculating an exact answer using common sense, go back and check; is your final answer close to your initial estimate? If not, why not?

#### EXAMPLE 1: DRUG MADE UP FROM STOCK SOLUTION

This example illustrates how to work out injections or orally taken drugs made up from stock solution - for example, working out how many mLs to inject when the drug is in a stock solution.

QUESTION: A patient is ordered 70 mg of pethidine, Find the volume required if the stock solution contains 10a of pethidine per 200mL. VISUAL.

10000

TO SOLVE: We'll be using this formula:

STRENGTH REQUIRED (SR) VOLUME OF STOCK VOLUME REQUIRED = STOCK STRENGTH (SS)

1. Note down the strength of medication the patient needs and the stock strength: Strength Required is 70 mg, Stock Strength is 10g in 200 ml.

At this point our rough answer is - More than 1 mL and a lot less than 200mL

- 2. Since you need units to be the same, convert 10 g to mg by multiplying by 1000. e.g.  $1000mg \times 10 = 10,000mg (10,000mg = 10g)$
- Now put the values into the above for. Note that 70mg (what the patient needs) is a very small part of 10,000mg - so expect your onswer in mL to be much less than 200mL 200 14000 10 ml 1,4ml VOLUME REQUIRED =

CONVERSION TIP: N 1,000 mg le

REPRESENTATION

10.000mm

POTENCIA NO

ANSWER: Based on the above, your answer = 1.4mL

LOGGO

2000ml

solution

# **Drug Calculations Study Guide**

**SA Dillow** 

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