


Nursing 131 Dosage Calculation PowerPoint Handout

Slide 2 & 3

Calculating dosage in tabs, caps, ml

This tutorial demonstrates calculating the number of tablets, capsules, or milliliters to prepare.

Our first example: 35mg of Sinequan(Doxepin) has been prescribed po. How many ml should you administer if the Sinequan is available in a strength labeled 10 mg in 1 ml?



Calculating dosage in tabs, caps, ml

Step One - Write down the dosage you want to administer.

Step Two - Write down the known strength.

Step Three - Reduce the units.

Step Four - Perform the math.

Slide 7 – Solution to Example One

Calculating dosage in tabs, caps, ml

	(Step One)	(Step Two)
<u>Step Four</u> - Perform the math.	35 mg	1 ml
	1	10 mg

$$\frac{35 \times 1}{1 \times 10} = \frac{35}{10}$$

Reduce any fractions and remember the units label.

$$= 3.5 \text{ ml}$$

Our first example: 35mg of Sinequan(Doxepin) has been prescribed po. How many ml should you administer if the Sinequan is available in a strength labeled 10 mg in 1 ml?

We have found that we need administer 3.5 ml of Sinequan.

Calculating dosage in tabs, caps, ml

Our second example: 500 mg of Keflex (Cephalexin) has been prescribed. 250 mg of Keflex is available in capsules. How many capsules should be administered?

Calculating dosage in tabs, caps, ml

Step One - Write down the dosage you want to administer.

Step Two - Write down the known strength.

Step Three - Reduce the units.

Step Four - Perform the math.

Slide 11 – Solution to Example Two

Calculating dosage in tabs, caps, ml

(Step One) (Step Two)

Step Four - Perform the math. $\frac{500 \text{ mg}}{1} \times \frac{1 \text{ capsule}}{250 \text{ mg}}$

$\frac{500 \times 1}{1 \times 250} = \frac{500}{250} \text{ capsules}$ Reduce any fractions and remember the units label.

= 2 capsules

Our second example: 500 mg of Keflex (Cephalexin) has been prescribed. 250 mg of Keflex is available in capsules. How many capsules should be administered?

We have found that we need to administer 2 capsules of Keflex.

