Dosage Calculation - Worksheet Answers

Answer 1

Stock required: 100 mg

Stock strength: 250 mg/8ml

Volume of stock: 8 ml

So, Dosage = $\dfrac{100 \text{ mg}}{250 \text{ mg}} \times 8\text{ml}$

= 3.20 ml

Answer 2

Stock required (SR): 8 mg

Stock strength (SS): 0.04g/6ml

Volume of stock: 6 ml

Converting the SS amount to mg.

So, SS= 0.04g= $0.04 \times 1000 = 40$ mg

Dosage = $\dfrac{8 \text{ mg}}{40 \text{ mg}} \times 6 \text{ ml}$

= 1.20 ml

Answer 3

Stock required: 450 mg

Stock strength: 150 mg

So, tablet dosage = $\dfrac{450\ mg}{150\ mg}$

= 3 tablets

Answer 4

Stock required: 62.5 mcg

Stock strength: 0.125 mg

Converting the SS amount to mcg.

So, SS= 0.125mg= 0.125 X 1000 = 125mcg

Dosage = $\dfrac{62.5\ mcg}{125\ mcg}$

= 0.5 tablets = ½ a tablet

Answer 5

Ordered dosage: 2 tablets

Stock strength (SS): 30mg/tablet

Hence, per dosage = $2 \times 30mg$ = 60 mg

One dosage is 60mg. So, to work out the dose that the patient will receive per day:

60 mg x QID (four times a day) = 240mg of Codeine per day.

Answer 6

SR = 12mg/kg/day

The dose is TDS (i.e. three times a day)

So, SR per dose=$(\frac{12}{3})$mg/kg/dose= 4 mg/kg/dose

SS = 10mg/2ml

Child's weight= 25kg

$$\text{Dose} = \left(\frac{\text{Stock required}}{\text{Stock strength}} \times \text{volume}\right) \times \text{Weight}$$

$$\text{Dose} = \frac{4}{10} \times 2 \ \times 25 = 20\text{mls}$$

So, 20 mls needs to be given in each dose.