



## Dosage Calculation - Worksheet Answers

### Answer 1

Stock required: 100 mg

Stock strength: 250 mg/8ml

Volume of stock: 8 ml

$$\begin{aligned} \text{So, Dosage} &= \frac{100 \text{ mg}}{250 \text{ mg}} \quad \times 8 \text{ ml} \\ &= 3.20 \text{ ml} \end{aligned}$$

### 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 × 1000 = 40 mg

$$\begin{aligned} \text{Dosage} &= \frac{8 \text{ mg}}{40 \text{ mg}} \quad \times 6 \text{ ml} \\ &= 1.20 \text{ ml} \end{aligned}$$

### Answer 3

Stock required: 450 mg

Stock strength: 150 mg



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

$$= 3 \text{ tablets}$$

**Answer 4**

Stock required: 62.5 mcg

Stock strength: 0.125 mg

Converting the SS amount to mcg.

$$\text{So, SS} = 0.125 \text{ mg} = 0.125 \times 1000 = 125 \text{ mcg}$$

$$\text{Dosage} = \frac{62.5 \text{ mcg}}{125 \text{ mcg}}$$

$$= 0.5 \text{ tablets} = \frac{1}{2} \text{ a tablet}$$

**Answer 5**

Ordered dosage: 2 tablets

Stock strength (SS): 30mg/tablet

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

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

$$60 \text{ mg} \times \text{QID (four times a day)} = 240 \text{ mg of Codeine per day.}$$

**Answer 6**

$$\text{SR} = 12 \text{ mg/kg/day}$$

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

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

$$\text{SS} = 10 \text{ mg/2ml}$$

$$\text{Child's weight} = 25 \text{ kg}$$

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

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

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