

Dosage Calculation - Practice Exercise Answers

Answer 1

Stock required: 120 mg

Stock strength: 550 mg/12ml

Volume of stock: 12 mls

= 2.61 mls.

Answer 2

Stock required (SR): 25 mg

Stock strength (SS): 0.6g/8ml

Volume of stock: 8 ml

Converting the SS amount to mg.

So, SS= $0.6g=0.6 \times 1000 = 600 \text{ mg}$

 $= 0.33 \, \text{ml}$

Answer 3

Stock required: 600/2= 300 mg/dose

Stock strength: 150 mg



= 2 tablets

Answer 4

Stock required: 72.5 mg/day;

SR per dose=(
$$\frac{72.5}{3}$$
)mg/dose= 24.17 mg/dose

Stock strength: 50 mg

Volume: 10 ml

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

Dose =
$$\left(\frac{24.17}{50} \times 10\right)$$
 mls = **4.834 mls**

Total volume in a day = (4.834×3) mls = **14**. **502 mls**

Answer 5

The dose is to be given every 8 hours, that is, three times a day.

So, SR per dose=
$$(\frac{25}{3})$$
mg/kg/dose= **8.33 mg/kg/dose**

$$SS = 0.05g/10ml$$

Converting the SS amount to mg.

Child's weight= 22kg

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

Dose =
$$\frac{8.33}{50} \times 10 \times 22 = 36.65$$
mls

Total dose/day = (36.65×3) mls = **109.96mls**.