Unit Conversion - Practice Exercises Answers

Answer 1:

Convert these to units (m, g or L):

No.	Units	Converted to m, g, or L
1	98mg	0.098g
2	25ml	0.025L
3	1025µg	0.001025g
4	19kl	19000L
5	589 mm	0.589m

Answer 2:

Convert the units to micro (units):

No.	Units	Converted to µ
1	28.6g	28600 µg
2	960L	960000 µl
3	13kg	13000000 µg
4	0.52m	520 µm
5	5km	5000000 µm

Answer 3

Stock required: 250 mg

Stock strength: 0.3g/2ml

Converting the SS amount to mg.

So, SS= 0.3g= 0.3×1000 = 300 mg

10mls of the liquid has 300 mg of the medication. So, we need to calculate the volume that would contain 250 mg of the medication.

Volume = $\frac{250}{300} \times \frac{2}{1} = 1.67$mls

Answer 4

Stock required (SR): 150 mg

Stock strength (SS): 0.25g

Converting the SS amount to mg.

So, SS= 0.25= 0.25×1000 = 250 mg

Number of tablets (Dose) = $\dfrac{150 \text{ mg}}{250 \text{ mg}}$

= 0.6 tablet

Answer 5

Lianne weighs 130 lbs

1kg=2.2lbs

So, weight in kilograms = $\dfrac{130\text{lbs}}{2.2 \text{ lbs}}$

= 59.09kg

Answer 6

Total volume to be given: 350 ml /8 hr

Converting the hour into minutes, (1hr = 60mins)

So, Total time (in mins) = 8×60 = 480 mins

Flow rate= $\dfrac{350 \text{ mls}}{480 \text{ mins}}$

= 0.73 mls/min