



## 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	1025 $\mu$ g	0.001025g
4	19kl	19000L
5	589 mm	0.589m

### Answer 2:

Convert the units to micro (units):

No.	Units	Converted to $\mu$
1	28.6g	28600 $\mu$ g
2	960L	960000 $\mu$ l
3	13kg	13000000 $\mu$ g
4	0.52m	520 $\mu$ m
5	5km	5000000 $\mu$ m

### Answer 3

Stock required: 250 mg

Stock strength: 0.3g/2ml

Converting the SS amount to mg.

So, SS= 0.3g=  $0.3 \times 1000 = 300$  mg

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

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



**Answer 4**

Stock required (SR): 150 mg

Stock strength (SS): 0.25g

Converting the SS amount to mg.

So, SS= 0.25=  $0.25 \times 1000 = 250 \text{ mg}$

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

$$= 0.6 \text{ tablet}$$

**Answer 5**

Lianne weighs 130 lbs

1kg=2.2lbs

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

$$= 59.09\text{kg}$$

**Answer 6**

Total volume to be given: 350 ml /8 hr

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

So, Total time (in mins) =  $8 \times 60 = 480 \text{ mins}$

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

$$= 0.73 \text{ mls/min}$$