

Unit Conversion Problems

Use the following known values the metric conversion chart in Chapter 1 of Denniston, *et al.*, to perform the conversions below.

<u>length</u>	<u>volume</u>	<u>weight</u>	<u>time</u>
12 in = 1 ft	2 pt = 1 qt	16 oz = 1 lb	24 hr = 1 day
3 ft = 1 yd	1 qt = 1 gal	2000 lb = 1 ton	60 min = 1 hr
2.54 cm = 1 in	0.9464 L = 1 qt	0.4536 kg = 1 lb	60 s = 1 min
			1 yr = 365 day

1) 29 in \rightarrow ? ft

2) 624 in \rightarrow ? cm

3) 14 gal \rightarrow ? pt

4) 3.7 pt \rightarrow ? L

5) 143 lb \rightarrow ? kg

6) 18.3 yr \rightarrow ? min

7) $5 \times 10^8 \mu\text{m} \rightarrow ? \text{m}$

8) $3.755 \times 10^{-6} \text{kg} \rightarrow ? \text{ng}$

9) $0.9956 \text{g/mL} \rightarrow ? \text{g/L}$

10) $109 \text{mg/dL} \rightarrow ? \text{g/L}$

11) $8.0453 \times 10^5 \text{mm}^2 \rightarrow ? \text{m}^2$