## U1D1 MAP 4CI Metric and Imperial Conversions

Note: To convert multiply by an appropriate ratio so the old units divide out.

$$
\text { value in old units } \times \frac{\text { conversion in new units }}{\text { conversion in old units }}
$$

1) Convert each measure
a) 8 feet to inches
b) 5400 m to km
c) 124 inches to yards
2) Converting Imperial to metric
a) 5 gallons to Litres
b) 8.9 km to miles
c) 25 mL to fluid ounces
d) 3 in to mm
e) 15 ounces to kg
f) 4 kg to pounds and ounces
3) Converting Areas
"It is not the same as converting distances. Here is a different method you can use to convert areas in different units of measurement if you already know the appropriate conversions for lengths.:
3a) Convert 16 miles $^{2}$ to $\mathrm{km}^{2}$.
Consider 1 mile $^{2}$. Convert the side lengths to km first - then calculate the area using these new measures.


1 mile

3b) Convert $5500 \mathrm{~cm}^{3}$ to Litres 3c) Convert $10 \mathrm{ft}^{2}$ to $\mathrm{m}^{2}$

3d) Convert $0.29 \mathrm{~m}^{3}$ to $\mathrm{ft}^{3}$

