



Solve the following using the Factor-Label Method. Show all work and all units.

1) 325 Gm = ? nm

Conversions:

$$1 \text{ mile} = 5280 \text{ ft}$$

$$1 \text{ in} = 2.54 \text{ cm}$$

$$1 \text{ ft} = 12 \text{ in}$$

$$1 \text{ lbs} = 454 \text{ g}$$

$$1 \text{ gallon} = 3.785 \text{ L}$$

$$\text{in} = \text{inch}$$

$$\text{ft} = \text{feet or foot}$$

$$\text{lbs} = \text{pound}$$

2) 75.0 L = ? mL

3) $\frac{10.0 \text{ lbs}}{\text{inch}^2} = ? \frac{\text{mg}}{\text{km}^2}$

4) 120 lbs = ? kg

5) $\frac{45.0 \text{ g}}{\text{inch}^3} = ? \frac{\text{lbs}}{\text{nm}^3}$

6) $2.35 \times 10^{-11} \text{ dm} = ? \text{ Mm}$

7) $3.0 \text{ mile} = ? \text{ mm}$

8) $2.0 \text{ L} = ? \text{ gallons}$

9) $\frac{23.65 \text{ mL}}{\text{hour}} = ? \frac{\text{kL}}{\text{sec}}$

10) $25.3 \text{ kL} = ? \mu\text{L}$