

Density Calculations!

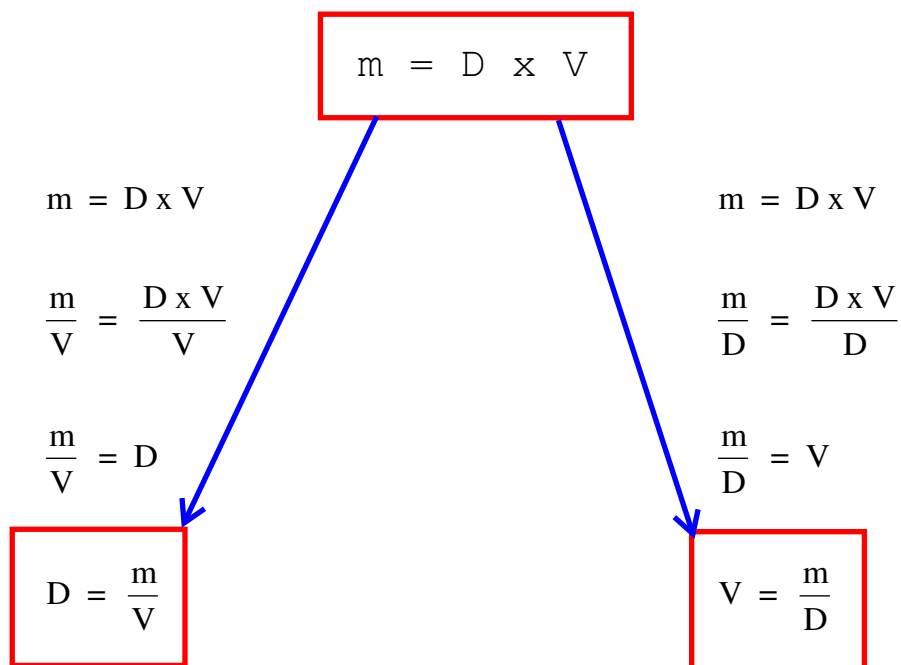
Density is a characteristic physical property that can be used to identify a pure substance.

$$m = D \times V$$

D = density (units are g/ml or g/cm³)

m = mass (usually g - many need to convert)

V = volume (usually in ml = cm³ = c.c.)



eg what is the density of gold if 25 cm³ has a mass of 482.5 g

$$D = ?$$

$$m = 482.5 \text{ g}$$

$$V = 25 \text{ cm}^3$$

$$D = \frac{m}{V}$$

$$D = \frac{482.5 \text{ g}}{25 \text{ cm}^3}$$

$$D = 19.3 \frac{\text{g}}{\text{cm}^3}$$