

CAMBIO DE UNIDADES DE DOS MAGNITUDES

Convierte en unidades del sistema internacional:

a) $v = 90 \text{ Km/h}$

$$v = 90 \frac{\cancel{\text{km}}}{\cancel{\text{h}}} \times \frac{1000 \text{ m}}{1 \cancel{\text{km}}} \times \frac{1 \cancel{\text{h}}}{3600 \text{ s}} = 25 \frac{\text{m}}{\text{s}}$$

b) $V = 0.75 \text{ HL}$

$$V = 0.75 \cancel{\text{HL}} \times \frac{100 \cancel{\text{L}}}{1 \cancel{\text{HL}}} \times \frac{1 \cancel{\text{dm}^3}}{1 \cancel{\text{L}}} \times \frac{1 \text{ m}^3}{1000 \cancel{\text{dm}^3}} = 0,075 \text{ m}^3$$

c) $\rho_{\text{Pb}} = 11.35 \text{ g/cm}^3$

$$\rho_{\text{Pb}} = 11.35 \frac{\cancel{\text{g}}}{\cancel{\text{cm}^3}} \times \frac{1 \text{ kg}}{1000 \cancel{\text{g}}} \times \frac{10^6 \cancel{\text{cm}^3}}{1 \text{ m}^3} = 11350 \frac{\text{kg}}{\text{m}^3}$$

d) $P = 2.7 \text{ kg/cm}^2$

$$P = 2.7 \frac{\cancel{\text{kg}}}{\cancel{\text{cm}^2}} \times \frac{9,8 \text{ N}}{1 \cancel{\text{kg}}} \times \frac{10^4 \cancel{\text{cm}^2}}{1 \text{ m}^2} = 264600 \frac{\text{N}}{\text{m}^2} = 264600 \text{ Pa}$$