

Hallar la equivalencia entre:

- a) dm y nm
 b) pm y μm
 c) Gm y dam (Dm)
 d) mm y Hm

$$\text{a) } 1 \text{ dm} = 10^{-1} \text{ m}$$

$$1 \text{ nm} = 10^{-9} \text{ m}$$

$$1 \text{ dm} \times \frac{10^{-1} \text{ m}}{1 \text{ dm}} \times \frac{1 \text{ nm}}{10^{-9} \text{ m}} = 10^8 \text{ nm}$$

$$\boxed{1 \text{ dm} = 10^8 \text{ nm}}$$

$$\text{b) } 1 \text{ pm} = 10^{-12} \text{ m}$$

$$1 \text{ } \mu\text{m} = 10^{-6} \text{ m}$$

$$1 \text{ } \mu\text{m} \times \frac{10^{-6} \text{ m}}{1 \text{ } \mu\text{m}} \times \frac{1 \text{ pm}}{10^{-12} \text{ m}} = 10^6 \text{ pm}$$

$$1 \mu\text{m} = 10^6 \text{ pm}$$

$$\begin{aligned} \text{c) } 1 \text{ Gm} &= 10^9 \text{ m} \\ 1 \text{ dam} &= 10 \text{ m} \end{aligned}$$

$$1 \text{ Gm} \times \frac{10^9 \text{ m}}{1 \text{ Gm}} \times \frac{1 \text{ dam}}{10 \text{ m}} = 10^8 \text{ dam}$$

$$1 \text{ Gm} = 10^8 \text{ dam}$$

$$\begin{aligned} \text{d) } 1 \text{ mm} &= 10^{-3} \text{ m} \\ 1 \text{ Hm} &= 10^2 \text{ m} \end{aligned}$$

$$1 \text{ Hm} \times \frac{10^2 \text{ m}}{1 \text{ Hm}} \times \frac{1 \text{ mm}}{10^{-3} \text{ m}} = 10^7 \text{ mm}$$

$$1 \text{ Hm} = 10^7 \text{ mm}$$