

Problema 135: Realiza os seguintes cambios de unidades:

a) 25 m/s (a km/h) =

$$25 \text{ m/s} = 25 \frac{\text{m}}{\text{s}} \cdot \frac{1 \text{ km}}{1000 \text{ m}} \cdot \frac{3600 \text{ s}}{1 \text{ h}} = \underline{90 \text{ km/h}}$$

b) 120 km/h (a m/s) =

$$120 \text{ km/h} = 120 \frac{\text{km}}{\text{h}} \cdot \frac{1000 \text{ m}}{1 \text{ km}} \cdot \frac{1 \text{ h}}{3600 \text{ s}} = \underline{33,33 \text{ m/s}}$$

c) 10 dam/s (a km/h) =

$$10 \text{ dam/s} = 10 \frac{\text{dam}}{\text{s}} \cdot \frac{1 \text{ km}}{100 \text{ dam}} \cdot \frac{3600 \text{ s}}{1 \text{ h}} = \underline{360 \text{ km/h}}$$

d) 5000 cm/h (a m/s) =

$$5000 \text{ cm/h} = 5000 \frac{\text{cm}}{\text{h}} \cdot \frac{1 \text{ m}}{100 \text{ cm}} \cdot \frac{1 \text{ h}}{3600 \text{ s}} = \underline{0,01389 \text{ m/s}}$$