

Problema 0122: Realiza os seguintes cambios de unidades:

a) 45 m/s (a km/h) =

$$45 \text{ m/s} = 45 \frac{\text{m}}{\text{s}} \cdot \frac{1 \text{ km}}{1000 \text{ m}} \cdot \frac{3600 \text{ s}}{1 \text{ h}} = 162 \frac{\text{km}}{\text{h}}$$

b) 90 km/h (a m/s) =

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

c) 1,5 dam/s (a km/h) =

$$1,5 \text{ dam/s} = 1,5 \frac{\text{dam}}{\text{s}} \cdot \frac{1 \text{ km}}{100 \text{ dam}} \cdot \frac{3600 \text{ s}}{1 \text{ h}} = 54 \frac{\text{km}}{\text{h}}$$

d) $5 \cdot 10^6$ cm/h (a m/s) =

$$5 \cdot 10^6 \text{ cm/h} = 5 \cdot 10^6 \frac{\text{cm}}{\text{h}} \cdot \frac{1 \text{ m}}{100 \text{ cm}} \cdot \frac{1 \text{ h}}{3600 \text{ s}} = 13,89 \frac{\text{m}}{\text{s}}$$