

Haz los siguientes cambios de unidades usando factores de conversión.

1.- 50 dg a g

$$50 \text{ dg} \cdot \frac{1 \text{ g}}{10 \text{ dg}} = \frac{50 \text{ dg} \cdot 1 \text{ g}}{10 \text{ dg}} = \frac{50 \text{ g}}{10} = 5 \text{ g}$$

2.- 0,003 km a mm

$$0,003 \text{ km} \cdot \frac{1\,000\,000 \text{ mm}}{1 \text{ km}} = \frac{0,003 \text{ km} \cdot 1\,000\,000 \text{ mm}}{1 \text{ km}} = \frac{3\,000 \text{ mm}}{1} = 3000 \text{ mm}$$

3.- 12 360 segundos a horas

$$12\,360 \text{ s} \cdot \frac{1 \text{ h}}{3\,600 \text{ s}} = \frac{12\,360 \text{ s} \cdot 1 \text{ h}}{3\,600 \text{ s}} = \frac{12\,360 \text{ h}}{3\,600} = 3,43 \text{ h} = 3 \text{ h } 26 \text{ min}$$

4.- 2,2 hm<sup>2</sup> a dm<sup>2</sup>

$$2,2 \text{ hm}^2 \cdot \frac{1\,000\,000 \text{ dm}^2}{1 \text{ hm}^2} = \frac{2,2 \text{ hm}^2 \cdot 1\,000\,000 \text{ dm}^2}{1 \text{ hm}^2} = \frac{2\,200\,000 \text{ dm}^2}{1} = 2\,200\,000 \text{ dm}^2$$

5.- 36 km/h a m/s

$$36 \frac{\text{km}}{\text{h}} \cdot \frac{1000 \text{ m}}{1 \text{ km}} \cdot \frac{1 \text{ h}}{3600 \text{ s}} = \frac{36 \text{ km} \cdot 1000 \text{ m} \cdot 1 \text{ h}}{\text{h} \cdot 1 \text{ km} \cdot 3600 \text{ s}} = \frac{36\,000 \text{ m}}{3600 \text{ s}} = 10 \frac{\text{m}}{\text{s}}$$

6.- 200 000 000 mm a km

$$200\,000\,000 \text{ mm} \cdot \frac{1 \text{ km}}{1\,000\,000 \text{ mm}} = \frac{200\,000\,000 \text{ mm} \cdot 1 \text{ km}}{1\,000\,000 \text{ mm}} = \frac{200\,000\,000 \text{ km}}{1\,000\,000} = 200 \text{ km}$$

7.- 250 cg a dag

$$250 \text{ cg} \cdot \frac{1 \text{ dag}}{1000 \text{ cg}} = \frac{250 \text{ cg} \cdot 1 \text{ dag}}{1000 \text{ cg}} = \frac{250 \text{ dag}}{1000} = 0,25 \text{ dag}$$

8.- 157 680 000 s a años (suponer que un año tiene 365 días)

$$157\,680\,000 \text{ s} \cdot \frac{1 \text{ h}}{3\,600 \text{ s}} \cdot \frac{1 \text{ día}}{24 \text{ h}} \cdot \frac{1 \text{ año}}{365 \text{ días}} = \frac{157\,680\,000 \text{ años}}{3\,600 \cdot 24 \cdot 365} = \frac{157\,680\,000 \text{ años}}{31\,536\,000} = 5 \text{ años}$$

9.- 1,5 hm<sup>3</sup> a litros (recuerda que un litro es lo mismo que un dm<sup>3</sup>)

$$1,5 \text{ hm}^3 \cdot \frac{1\,000\,000\,000 \text{ dm}^3}{1 \text{ hm}^3} = \frac{1,5 \text{ hm}^3 \cdot 1\,000\,000\,000 \text{ dm}^3}{1 \text{ hm}^3} = 1\,500\,000\,000 \text{ dm}^3 \text{ ó litros}$$

10.- 25 m/s a km/h

$$25 \frac{\text{m}}{\text{s}} \cdot \frac{1 \text{ km}}{1000 \text{ m}} \cdot \frac{3600 \text{ s}}{1 \text{ h}} = \frac{25 \text{ m} \cdot 1 \text{ km} \cdot 3600 \text{ s}}{\text{s} \cdot 1000 \text{ m} \cdot 1 \text{ h}} = \frac{90\,000 \text{ km}}{1000 \text{ h}} = 90 \frac{\text{km}}{\text{h}}$$