

Factores de Conversión

- 1.- 8 kg $\rightarrow$ g
- 2.- 8 t $\rightarrow$ kg
- 3.- 7 g $\rightarrow$ kg
- 4.- 12 kg $\rightarrow$ g
- 5.- 200 m $\rightarrow$ km
- 6.- 2 cm $\rightarrow$ m
- 7.- 20 km $\rightarrow$ m
- 8.- 8 cL $\rightarrow$ L
- 9.- 10 mL $\rightarrow$ L
- 10.- 10 L $\rightarrow$ cL
- 11.- 20 L $\rightarrow$ mL
- 12.- 10 m³ $\rightarrow$ dm³
- 13.- 10 cm³ $\rightarrow$ dm³
- 14.- 10 m³ $\rightarrow$ cm³
- 15.- 8 dm³ $\rightarrow$ m³
- 16.- 10 L $\rightarrow$ dm³
- 17.- 10 cm³ $\rightarrow$ m³
- 18.- 10 m³ $\rightarrow$ L
- 19.- 10 m³ $\rightarrow$ mL
- 20.- 10 dm³ $\rightarrow$ L
- 21.- 10 mL $\rightarrow$ dm³
- 22.- 10 cm³ $\rightarrow$ mL
- 23.- 200 mL $\rightarrow$ m³
- 24.- $1.3 \frac{g}{L} \rightarrow \frac{kg}{m^3}$
- 25.- $6 \frac{g}{cm^3} \rightarrow \frac{kg}{m^3}$
- 26.- $8 \frac{mg}{cm^3} \rightarrow \frac{g}{mL}$
- 27.- $10 \frac{g}{L} \rightarrow \frac{kg}{m^3}$
- 28.- $20 \frac{km}{h} \rightarrow \frac{m}{s}$
- 29.- $20 \frac{m}{s} \rightarrow \frac{km}{h}$
- 30.- $20 \frac{cm}{s} \rightarrow \frac{km}{h}$

Soluciones

1.- $8 \text{ kg} \rightarrow \text{g}$

$$m = 8\text{kg} \frac{1000\text{g}}{1\text{kg}} = 8000\text{g} = 8 \cdot 10^3\text{g}$$

2.- $8 \text{ t} \rightarrow \text{kg}$

$$m = 8\text{t} \frac{1000\text{kg}}{1\text{t}} = 8000\text{kg} = 8 \cdot 10^3\text{kg}$$

3.- $7 \text{ g} \rightarrow \text{kg}$

$$m = 7\text{g} \frac{1\text{kg}}{1000\text{g}} = 0.007\text{kg} = 7 \cdot 10^{-3}\text{kg}$$

4.- $12 \text{ kg} \rightarrow \text{g}$

$$m = 12\text{kg} \frac{1000\text{g}}{1\text{kg}} = 12000\text{g} = 1.2 \cdot 10^4\text{g}$$

5.- $200 \text{ m} \rightarrow \text{km}$

$$L = 200\text{m} \frac{1\text{km}}{1000\text{m}} = 0.2\text{km} = 2 \cdot 10^{-1}\text{km}$$

6.- $2 \text{ cm} \rightarrow \text{m}$

$$L = 2\text{cm} \frac{1\text{m}}{100\text{cm}} = 0.02\text{m} = 2 \cdot 10^{-2}\text{m}$$

7.- $20 \text{ km} \rightarrow \text{m}$

$$L = 20\text{km} \frac{1000\text{m}}{1\text{km}} = 20000\text{m} = 2 \cdot 10^4\text{m}$$

8.- $8 \text{ cL} \rightarrow \text{L}$

$$V = 8\text{cL} \frac{1\text{L}}{100\text{cL}} = 0,08\text{L} = 8 \cdot 10^{-2}\text{L}$$

9.- $10 \text{ mL} \rightarrow \text{L}$

$$V = 10\text{mL} \frac{1\text{L}}{1000\text{mL}} = 0,01\text{L} = 10^{-2}\text{L}$$

10.- $10 \text{ L} \rightarrow \text{cL}$

$$V = 10\text{L} \frac{100\text{cL}}{1\text{L}} = 1000\text{cL} = 10^3\text{cL}$$

11.- $20 \text{ L} \rightarrow \text{mL}$

$$V = 20\text{L} \frac{1000\text{mL}}{1\text{L}} = 20000\text{mL} = 2 \cdot 10^4\text{mL}$$

12.- $10 \text{ m}^3 \rightarrow \text{dm}^3$

$$V = 10\text{m}^3 \frac{1000\text{dm}^3}{1\text{m}^3} = 10000\text{dm}^3 = 10^4\text{dm}^3$$

13.- $10 \text{ cm}^3 \rightarrow \text{dm}^3$

$$V = 10\text{cm}^3 \frac{1\text{dm}^3}{1000\text{cm}^3} = 0,01\text{dm}^3 = 10^{-2}\text{dm}^3$$

14.- $10 \text{ m}^3 \rightarrow \text{cm}^3$

$$V = 10\text{m}^3 \frac{1000000\text{cm}^3}{1\text{m}^3} = 10000000\text{cm}^3 = 10^7\text{cm}^3$$

15.- $8 \text{ dm}^3 \rightarrow \text{m}^3$

$$V = 8\text{dm}^3 \frac{1\text{m}^3}{1000\text{dm}^3} = 0,008\text{m}^3 = 8 \cdot 10^{-3}\text{m}^3$$

16.- $10 \text{ L} \rightarrow \text{dm}^3$

$$V = 10L \frac{1dm^3}{1L} = 10dm^3$$

17.- $10 cm^3 \rightarrow m^3$

$$V = 10cm^3 \frac{1m^3}{1000000cm^3} = 0,00001m^3 = 10^{-5}m^3$$

18.- $10 m^3 \rightarrow L$

$$V = 10m^3 \frac{1000dm^3}{1m^3} \frac{1L}{1dm^3} = 10000L = 10^4L$$

$$V = 10m^3 \frac{1kL}{1m^3} \frac{1000L}{1kL} = 10000L = 10^4L$$

19.- $10 m^3 \rightarrow mL$

$$V = 10m^3 \frac{1000dm^3}{1m^3} \frac{1L}{1dm^3} \frac{1000mL}{1L} = 10000000mL = 10^7mL$$

$$V = 10m^3 \frac{1000000cm^3}{1m^3} \frac{1mL}{1cm^3} = 10000000mL = 10^7mL$$

20.- $10 dm^3 \rightarrow L$

$$V = 10dm^3 \frac{1L}{1dm^3} = 10L$$

21.- $10 mL \rightarrow dm^3$

$$V = 10mL \frac{1L}{1000mL} \frac{1dm^3}{1L} = 0,01dm^3 = 10^{-2}dm^3$$

$$V = 10mL \frac{1cm^3}{1mL} \frac{1dm^3}{1000cm^3} = 0,01dm^3 = 10^{-2}dm^3$$

22.- $10 cm^3 \rightarrow mL$

$$V = 10cm^3 \frac{1dm^3}{1000cm^3} \frac{1L}{1dm^3} \frac{1000mL}{1L} = 10mL$$

$$V = 10cm^3 \frac{1mL}{1cm^3} = 10mL$$

23.- $200 mL \rightarrow m^3$

$$V = 200mL \frac{1L}{1000mL} \frac{1dm^3}{1L} \frac{1m^3}{1000dm^3} = 0,0002m^3 = 2 \cdot 10^{-4}m^3$$

$$V = 200mL \frac{1cm^3}{1mL} \frac{1m^3}{1000000cm^3} = 0,0002m^3 = 2 \cdot 10^{-4}m^3$$

24.- $1,3 \frac{g}{L} \rightarrow \frac{kg}{m^3}$

$$d = 1,3 \frac{g}{L} \frac{1kg}{1000g} \frac{1L}{1dm^3} \frac{1000dm^3}{1m^3} = 1,3 \frac{kg}{m^3}$$

$$d = 1,3 \frac{g}{L} \frac{1kg}{1000g} \frac{1000L}{1kL} \frac{1kL}{1m^3} = 1,3 \frac{kg}{m^3}$$

25.- $6 \frac{g}{cm^3} \rightarrow \frac{kg}{m^3}$

$$d = 6 \frac{g}{cm^3} \frac{1kg}{1000g} \frac{1000000cm^3}{1m^3} = 6000 \frac{kg}{m^3} = 6 \cdot 10^3 \frac{kg}{m^3}$$

26.- $8 \frac{mg}{cm^3} \rightarrow \frac{g}{mL}$

$$d = 8 \frac{mg}{cm^3} \frac{1g}{1000mg} \frac{1000cm^3}{1dm^3} \frac{1dm^3}{1L} \frac{1L}{1000mL} = 0,008 \frac{g}{mL} = 8 \cdot 10^{-3} \frac{g}{mL}$$

$$d = 8 \frac{mg}{cm^3} \frac{1g}{1000mg} \frac{1cm^3}{1mL} = 0,008 \frac{g}{mL} = 8 \cdot 10^{-3} \frac{g}{mL}$$

$$27.- 10 \frac{g}{L} \rightarrow \frac{kg}{m^3}$$

$$d = 10 \frac{g}{L} \frac{1kg}{1000g} \frac{\mathbf{1L}}{\mathbf{1dm^3}} \frac{1000dm^3}{1m^3} = 10 \frac{kg}{m^3}$$

$$d = 10 \frac{g}{L} \frac{1kg}{1000g} \frac{1000L}{1kL} \frac{\mathbf{1kL}}{\mathbf{1m^3}} = 10 \frac{kg}{m^3}$$

$$28.- 20 \frac{km}{h} \rightarrow \frac{m}{s}$$

$$v = 20 \frac{km}{h} \frac{1000m}{1km} \frac{1h}{60'60''} = 5,5 \frac{m}{s}$$

$$v = 20 \frac{km}{h} \frac{1000m}{1km} \frac{1h}{3600''} = 5,5 \frac{m}{s}$$

$$29.- 20 \frac{m}{s} \rightarrow \frac{km}{h}$$

$$v = 20 \frac{m}{s} \frac{1km}{1000m} \frac{\mathbf{60s}}{\mathbf{1min}} \frac{\mathbf{60min}}{\mathbf{1h}} = 72 \frac{km}{h}$$

$$v = 20 \frac{m}{s} \frac{1km}{1000m} \frac{\mathbf{3600s}}{\mathbf{1h}} = 72 \frac{km}{h}$$

$$30.- 20 \frac{cm}{s} \rightarrow \frac{km}{h}$$

$$v = 20 \frac{cm}{s} \frac{1km}{100000cm} \frac{\mathbf{60s}}{\mathbf{1min}} \frac{\mathbf{60min}}{\mathbf{1h}} = 0,72 \frac{km}{h}$$

$$v = 20 \frac{cm}{s} \frac{1km}{100000cm} \frac{\mathbf{3600s}}{\mathbf{1h}} = 0,72 \frac{km}{h}$$