Entraînement 4P16

EX 1

4P16

1. Convertir 9 L/s en cL/min.

2. Convertir 468 km/s en hm/h.

3. Convertir 234 mm^2/min en cm^2/h.

4. Convertir 342 cL/cm^2 en mL/dm^2.

5. Convertir 684 V.mA en kV.A.

6. Convertir 162 kW.h en W.min.

7. Convertir 27 m^3/h en dm^3/s.

8. Convertir 351 cL/min en L/h.

9. Convertir 342 mV.A en kV.mA.

Corrections

EX 1

1. $9\ \text{L/s} = \dfrac{9\ \text{L}}{1\ \text{s}} = \dfrac{9 \times 100\ \text{cL}}{\frac{1}{60}\ \text{min}} = 54\,000\ \text{cL/min}$

2. $468\ \text{km/s} = \dfrac{468\ \text{km}}{1\ \text{s}} = \dfrac{468 \times 10\ \text{hm}}{\frac{1}{3\,600}\ \text{h}} = 16\,848\,000\ \text{hm/h}$

3. $234\ \text{mm}^2\text{/min} = \dfrac{234\ \text{mm}^2}{1\ \text{min}} = \dfrac{234 \times \frac{1}{100}\ \text{cm}^2}{\frac{1}{60}\ \text{h}} = 140{,}4\ \text{cm}^2\text{/h}$

4. $342\ \text{cL/cm}^2 = \dfrac{342\ \text{cL}}{1\ \text{cm}^2} = \dfrac{342 \times 10\ \text{mL}}{\frac{1}{100}\ \text{dm}^2} = 342\,000\ \text{mL/dm}^2$

5. $684\ \text{V.mA} = 684\ \text{V} \times 1\ \text{mA} = 684 \times \dfrac{1}{1\,000}\ \text{kV} \times \dfrac{1}{1\,000}\ \text{A} = 0{,}000\,684\ \text{kV.A}$

6. $162\ \text{kW.h} = 162\ \text{kW} \times 1\ \text{h} = 162 \times 1\,000\ \text{W} \times 60\ \text{min} = 9\,720\,000\ \text{W.min}$

7. $27\ \text{m}^3\text{/h} = \dfrac{27\ \text{m}^3}{1\ \text{h}} = \dfrac{27 \times 1\,000\ \text{dm}^3}{3\,600\ \text{s}} = 7{,}5\ \text{dm}^3\text{/s}$

8. $351\ \text{cL/min} = \dfrac{351\ \text{cL}}{1\ \text{min}} = \dfrac{351 \times \frac{1}{100}\ \text{L}}{\frac{1}{60}\ \text{h}} = 210{,}6\ \text{L/h}$

9. $342\ \text{mV.A} = 342\ \text{mV} \times 1\ \text{A} = 342 \times \dfrac{1}{1\,000\,000}\ \text{kV} \times 1\,000\ \text{mA} = 0{,}342\ \text{kV.mA}$