

Correction chapitre 1: Modification d'une formule et conversions.

Exercice 1 :

$$12,5 \text{ mm} = 0,0125 \text{ m}$$

$$0,356 \text{ km} = 356 \text{ m}$$

$$56 \text{ g} = 0,056 \text{ kg}$$

$$358 \text{ ms} = 0,358 \text{ s}$$

Exercice 2 :

$$0,65 \mu\text{s} = 0,65 \times 10^{-6} \text{ s}$$

$$75,85 \text{ nm} = 75,85 \times 10^{-9} \text{ m}$$

$$0,0056 \text{ mg} = 0,0056 \times 10^{-3} \text{ g}$$

$$89,8 \cdot 10^3 \text{ kN} = 89,8 \cdot 10^3 \times 10^3 \text{ N} = 89,8 \cdot 10^6 \text{ N}$$

$$15 \text{ Ms} = 15 \times 10^6 \text{ s}$$

Exercice 3 :

1. $A = ?$ $C = \textcircled{A} \times D$

$$\frac{C}{D} = \textcircled{A}$$

$$A = \frac{0,00058979}{4060 \cdot 10^{-1}} = 1,45 \cdot 10^{-6}$$

2. $m = ?$ $t = \frac{\textcircled{m}}{V}$

$$t \times V = \textcircled{m}$$

$$m = 35,4 \times 0,16 = 5,66$$

3. $S = ?$ $P = \frac{F}{\textcircled{S}}$

$$P \times \textcircled{S} = F$$

$$S = \frac{F}{P} = \frac{7,8500 \cdot 10^4}{17,5} = 4,49 \times 10^3$$