

Mass in the SI System (metric System)

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8:29 AM

↓
1 tonne (t)
* metric tonne *

* in
data
book *

$$\begin{aligned} 1 \text{ t} &= 1000 \text{ kg} \\ 1 \text{ kg} &= 1000 \text{ g} \end{aligned}$$

* Not given
in Data
book *

$$1 \text{ g} = 1000 \text{ mg}$$

RECALL:

↳ Imperial system

↓
1 ton (tn)

Ex.#1 Convert the following weights

(a) $6.7 \text{ t} = \underline{\hspace{2cm}} \text{ kg}$

(b.) $2975 \text{ kg} = \underline{\hspace{2cm}} \text{ t}$

$$6.7 \cancel{\text{t}} \times \frac{1000 \text{ kg}}{1 \cancel{\text{t}}} = \boxed{6700 \text{ kg}}$$

$$2975 \cancel{\text{kg}} \times \frac{1 \text{ t}}{1000 \cancel{\text{kg}}} = \boxed{2.975 \text{ t}}$$

Ex.#2 Convert $1210 \text{ g} = \underline{\hspace{2cm}} \text{ t}$

$$1210 \text{ g} \times \frac{1 \cancel{\text{kg}}}{1000 \cancel{\text{g}}} \times \frac{1 \text{ t}}{1000 \cancel{\text{kg}}} = \boxed{0.00121 \text{ t}}$$

Please do Assignment #6