

P13 ② $0.035 \text{ mg} = \text{_____} \text{ cg}$

$$\frac{0.035 \text{ mg}}{1} \times \frac{1 \text{ g}}{1000 \text{ mg}} \times \frac{100 \text{ cg}}{1 \text{ g}} = 0.0035 \text{ cg}$$

$$3.5 \times 10^{-3} \text{ cg}$$

Sep 21-8:44 AM

P13 ③ $5.5 \text{ kg} = \text{_____} \text{ lbs.}$

$$\frac{5.5 \text{ kg}}{1} \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1 \text{ lb}}{454 \text{ g}}$$

$$1 \text{ lb} = 454 \text{ g}$$

Sep 21-8:50 AM

$$\frac{30 \text{ miles}}{\text{hour}} = \frac{\text{feet}}{\text{Sec}}$$

$$\frac{30 \text{ mi}}{1 \text{ hr}} \cdot \frac{5280 \text{ ft}}{1 \text{ mi}} \cdot \frac{1 \text{ hr}}{60 \text{ min}} \cdot \frac{1 \text{ min}}{60 \text{ sec}} = \frac{158400 \text{ ft}}{3600 \text{ sec}} = 44 \text{ ft/sec}$$

Sep 21-9:06 AM

Density = $\frac{\text{mass}}{\text{Volume}}$ $\left(\frac{\text{g}}{\text{cm}^3} \right)$

$1 \text{ cm}^3 = 1 \text{ ml}$

$V = l \times w \times h$
 $\text{cm}^3 = \text{cm} \times \text{cm} \times \text{cm}$

Intensive property } Extensive property
Independent of amount } amount dependent.
 amt does NOT matter

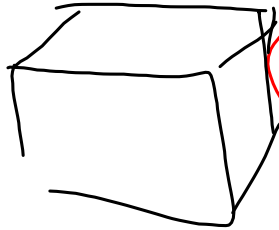
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$$D = \frac{m}{V} = \frac{\text{mass}}{l \times w \times h} = \frac{\text{Density}}{1}$$

$$\frac{D}{1} = \frac{m}{l \times w \times h}$$

$$\text{Thickness } h = \frac{m}{l \times w \times D}$$

✓ (Scale)

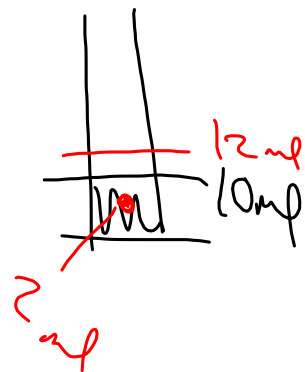


Sep 21-9:48 AM

Volume ① Measure = Most Accurate
Ruler

② Water displacement.

③ Displacement container



Sep 21-10:01 AM

P 19 1-5

Sep 21-10:03 AM