

DIMENSIONAL ANALYSIS PROBLEMS

Conversions Factors

| | | | |
|--------------------|------------------|---------------------------|---------------------------|
| 1 hr = 60 min | 1 min = 60 sec | 1 ton = 2000 lbs | 7 days = 1 week |
| 24 hrs = 1 day | 1 kg = 2.2 lbs | 1 gal = 3.79 L | 264.2 gal = 1 cubic meter |
| 1 mi = 5,280 ft | 1 kg = 1000 g | 1 lb = 16 oz | 20 drops = 1 mL |
| 365 days = 1 yr | 52 weeks = 1 yr | 2.54 cm = 1 in | 1 L = 1000 mL |
| 0.621 mi = 1.00 km | 1 yd = 36 inches | 1 cc is 1 cm ³ | 1 mL = 1 cm ³ |

DIRECTIONS: Solve each problem using dimensional analysis. Every number must have a unit. Work must be shown. Conversion factors are given below

- 1.) How many miles will a person run during a 10 kilometer race?

$$\frac{10 \cancel{\text{km}}}{1.00 \cancel{\text{km}}} \times \frac{0.621 \text{ mi}}{1 \text{ km}} = 6.21 \text{ mi} \sim 6.2 \text{ miles}$$

- 2.) The moon is 250,000 miles away. How many feet is it from earth?

$$\frac{250,000 \cancel{\text{mi}}}{1 \cancel{\text{mi}}} \times \frac{5280 \text{ ft}}{1 \text{ mi}} = 1.3 \times 10^9 \text{ ft}$$

- 3.) A family pool holds 10,000 gallons of water. How many cubic meters is this?

$$\frac{10,000 \cancel{\text{gal}}}{264.2 \cancel{\text{gal}}} \times \frac{1 \text{ m}^3}{1 \text{ m}^3} = 37.9 \text{ m}^3$$

- 4.) The average American student is in class 330 minutes/day. How many hours/day is this?

$$\frac{330 \cancel{\text{min}}}{1 \cancel{\text{day}}} \times \frac{1 \text{ hr}}{60 \cancel{\text{min}}} = 5.5 \text{ hours/day}$$

How many seconds is this?

$$\frac{330 \cancel{\text{min}}}{1 \cancel{\text{day}}} \times \frac{60 \cancel{\text{sec}}}{1 \cancel{\text{min}}} = 19,800 \frac{\cancel{\text{sec}}}{\cancel{\text{day}}} = 2.0 \times 10^4 \frac{\text{sec}}{\text{day}}$$

- 5) How many seconds are there in 1 year?

$$\frac{1 \cancel{\text{yr}}}{1 \cancel{\text{yr}}} \times \frac{365 \cancel{\text{days}}}{1 \cancel{\text{day}}} \times \frac{24 \cancel{\text{hrs}}}{1 \cancel{\text{hr}}} \times \frac{60 \cancel{\text{min}}}{1 \cancel{\text{min}}} \times \frac{60 \cancel{\text{sec}}}{1 \cancel{\text{sec}}} = \boxed{31536000 \text{ sec}} \approx 3 \times 10^7 \text{ sec}$$

- 6) Lake Michigan holds 1.3×10^{15} gallons of water. How many liters is this?

$$\frac{1.3 \times 10^{15} \cancel{\text{gal}}}{1 \cancel{\text{gal}}} \times \frac{3.79 \text{ L}}{1 \text{ gal}} = 4.9 \times 10^{15} \text{ L}$$

- 7) Pepsi puts 355 ml of pop in a can. How many drops is this?

$$\frac{355 \cancel{\text{mL}}}{1 \cancel{\text{mL}}} \times \frac{20 \text{ drops}}{1 \text{ mL}} = 7100 \text{ drops.}$$

Chem 101 Activity On Dimensional Analysis Answers

Katrin Zwirgmaier



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