

ChemCom 1.A.1 DIMENSIONAL ANALYSIS PROBLEMS

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

Conversions Factors

- 1 hr = 60 min
- 7 days = 1 week
- 24 hrs = 1 day
- 264.2 gal = 1 cubic meter
- 1 mi = 5,280 ft
- 20 drops = 1 mL
- 365 days = 1 year
- 1 L = 1000 mL
- 0.625 mi = 1.00 km
- 1 L = 1000 cc

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

$$\frac{10.0 \text{ km}}{\text{km}} \times \frac{0.625 \text{ mi}}{1 \text{ km}} = 6.25 \text{ miles}$$

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

$$\frac{250,000 \text{ mi}}{\text{mi}} \times \frac{5280 \text{ ft}}{1 \text{ mi}} = 1.32 \times 10^6 \text{ ft}$$

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

$$\frac{10,000 \text{ gal}}{\text{gal}} \times \frac{1 \text{ m}^3}{264.2 \text{ gal}} = 37.85 \text{ m}^3$$

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

$$\frac{330 \text{ min}}{\text{min}} \times \frac{1 \text{ hr}}{60 \text{ min}} = 5.5 \text{ hr}$$

$$\frac{330 \text{ min}}{\text{min}} \times \frac{60 \text{ s}}{1 \text{ min}} = 2.0 \times 10^4 \text{ s}$$

5) How many seconds are there in 16 years?

$$\frac{16 \text{ yr}}{\text{yr}} \times \frac{365 \text{ da}}{1 \text{ yr}} \times \frac{24 \text{ hr}}{1 \text{ da}} \times \frac{3600 \text{ s}}{1 \text{ hr}} = 5.05 \times 10^8 \text{ s}$$

6) Lake Erie holds 1.3×10^{11} gallons of water. How many liters is this?

$$\frac{1.3 \times 10^{11} \text{ gal}}{\text{gal}} \times \frac{1 \text{ m}^3}{264.2 \text{ gal}} \times \frac{1000 \text{ L}}{1 \text{ m}^3} = 4.9 \times 10^8 \text{ L}$$

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

$$\frac{355 \text{ mL}}{\text{mL}} \times \frac{20 \text{ drops}}{1 \text{ mL}} = 7.1 \times 10^3 \text{ drops}$$

8) Columbus uses 1.2×10^9 gallons of water /day . How many gallons per second must be pumped from the lake every second to supply the city?

$$\frac{1.2 \times 10^9 \text{ gal}}{\text{da}} \times \frac{1 \text{ da}}{24 \text{ hr}} \times \frac{1 \text{ hr}}{3600 \text{ s}} = 1.4 \times 10^4 \text{ gal/s}$$

Mathematics English Fcs

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