

CHEM UNIT 1 HW#3 PART 4

①

$$f) (3.85 \text{ ft}) \frac{100 \text{ cm}}{\text{m}} = \boxed{385 \text{ cm}}$$

$$b) (35 \text{ mL}) \frac{1 \text{ L}}{1000 \text{ mL}} = \boxed{0.035 \text{ L}}$$

$$c) (125 \text{ g}) \frac{1 \text{ kg}}{1000 \text{ g}} = \boxed{0.125 \text{ kg}}$$

$$d) (1.3 \text{ L}) \frac{1000 \text{ mL}}{1 \text{ L}} = \boxed{1300 \text{ mL}}$$

$$e) (45 \text{ mL}) \frac{1 \text{ cm}^3}{1 \text{ mL}} = \boxed{45 \text{ cm}^3}$$

$$f) (25.0 \text{ cM}) \frac{1 \text{ kCM}}{1000 \text{ cM}} = \boxed{0.0250 \text{ kCM}}$$

$$g) (45 \text{ in}) \frac{2.54 \text{ cm}}{\text{in}} = \boxed{114.3 \text{ cm}}$$

$$h) (2.65 \text{ mL}) \frac{1 \text{ fl. oz}}{29.6 \text{ mL}} = \boxed{0.0895 \text{ fl. oz}}$$

$$i) (20000 \text{ LEAGUES}) \frac{3 \text{ MI}}{\text{LEAGUE}} = \boxed{60,000 \text{ MILES}}$$

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$$J) (15 \cancel{K}) \left(\frac{16 \cancel{K}}{3.785 \cancel{L}} \right) = \boxed{3.963 \text{ GAL} = 4.0 \text{ GAL} \left(\frac{2.5 \cancel{L}}{1 \cancel{GAL}} \right)}$$

$$K) 45 + 273 = \boxed{318 \text{ K}}$$

$$L) (15 \cancel{F}) \left(\frac{12 \cancel{IN}}{1 \cancel{F}} \right) \left(\frac{2.54 \cancel{CM}}{1 \cancel{IN}} \right) = \boxed{457.2 \text{ CM} = 460 \text{ CM} \left(\frac{2.54 \cancel{CM}}{1 \cancel{IN}} \right)}$$

$$M) (75 \cancel{\text{mi}}) \left(\frac{1.61 \cancel{\text{km}}}{1 \cancel{\text{mi}}} \right) = \boxed{120.75 \text{ km} = 120 \text{ km} \left(\frac{2.54 \cancel{\text{cm}}}{1 \cancel{\text{in}}} \right)}$$

$$N) (5280 \cancel{\text{ft}}) \left(\frac{1 \cancel{\text{mi}}}{5280 \cancel{\text{ft}}} \right) = \boxed{1.00 \text{ MILE}}$$