

not significant and zeros at the end of a number and after the decimal point are always significant.

(c) 18 students has an infinite number of significant figures since this is an exact number.

- 1.10 (a) Since the digit to be dropped (the second 4) is less than 5, round down. The result is 3.774 L.

(b) Since the digit to be dropped (0) is less than 5, round down. The result is 255 K.

(c) Since the digit to be dropped is equal to 5 with nothing following and the preceding digit is even, round down. The result is 55.26 kg.

- 1.11 (a)
$$\begin{array}{r} 24.567 \text{ g} \\ + 0.04478 \text{ g} \\ \hline 24.61178 \text{ g} \end{array}$$
 This result should be expressed with 3 decimal places. Since the digit to be dropped (7) is greater than 5, round up. The result is 24.612 g (5 significant figures).

(b) $4.6742 \text{ g} / 0.00371 \text{ L} = 1259.89 \text{ g/L}$

0.00371 has only 3 significant figures so the result of the division should have only 3 significant figures. Since the digit to be dropped (first 9) is greater than 5, round up. The result is 1260 g/L (3 significant figures).

(c)
$$\begin{array}{r} 0.378 \text{ mL} \\ + 42.3 \text{ mL} \\ - 1.5833 \text{ mL} \\ \hline 41.0947 \text{ mL} \end{array}$$
 This result should be expressed with 1 decimal place. Since the digit to be dropped (9) is greater than 5, round up. The result is 41.1 mL (3 significant figures).

- 1.12 (a) Estimate: $^{\circ}\text{F} = 2 \times ^{\circ}\text{C}$ if $^{\circ}\text{C}$ is large. The melting point of gold = 2000 $^{\circ}\text{F}$.

$$\text{Calculation: } ^{\circ}\text{F} = \left(\frac{9}{5} \times ^{\circ}\text{C}\right) + 32 = \left(\frac{9}{5} \times 1064\right) + 32 = 1947^{\circ}\text{F}$$

(b) $r = d/2 = 3 \times 10^{-6} \text{ m} = 3 \times 10^{-4} \text{ cm}$; $h = 2 \times 10^{-6} \text{ m} = 2 \times 10^{-4} \text{ cm}$

$$\text{Estimate: volume} = \pi r^2 h = 3r^2 h = 3(3 \times 10^{-4} \text{ cm})^2 (2 \times 10^{-4} \text{ cm}) = 5 \times 10^{-11} \text{ cm}^3$$

$$\text{Calculation: volume} = \pi r^2 h = (3.1416)(3 \times 10^{-4} \text{ cm})^2 (2 \times 10^{-4} \text{ cm}) = 6 \times 10^{-11} \text{ cm}^3$$

- 1.13 1 mi = 1760 yd and 1 m = 1.0936 yd

$$26 \text{ mi} \times \frac{1760 \text{ yd}}{1 \text{ mi}} = 45,760 \text{ yd}$$

$$\text{marathon in yards} = 45,760 \text{ yd} + 385 \text{ yd} = 46,145 \text{ yd}$$

$$\text{marathon in meters} = 46,145 \text{ yd} \times \frac{1 \text{ m}}{1.0936 \text{ yd}} = 42,196 \text{ m}$$

- 1.14 1 carat = 200 mg = $200 \times 10^{-3} \text{ g} = 0.200 \text{ g}$

$$\text{Mass of Hope Diamond in grams} = 44.4 \text{ carats} \times \frac{0.200 \text{ g}}{1 \text{ carat}} = 8.88 \text{ g}$$

$$1 \text{ ounce} = 28.35 \text{ g}$$

$$\text{Mass of Hope Diamond in ounces} = 8.88 \text{ g} \times \frac{1 \text{ ounce}}{28.35 \text{ g}} = 0.313 \text{ ounces}$$

Solutions Manual Chemistry Assessment

Nivaldo J. Tro



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