

Answers to Quick-Check and Even Numbered Problems from Textbook

CHAPTER 1-Quick Check

QC 1.1 Multiplication: (a) 4.69×10^5 (b) 2.8×10^{13}

Division: (a) 1.94×10^{18} (b) 1.37×10^5

QC 1.2 (a) $^{\circ}\text{F} = \frac{9}{5} ^{\circ}\text{C} + 32 = \frac{9}{5} 64.0^{\circ}\text{C} + 32 = 147^{\circ}\text{F}$

(b) $^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32) = \frac{5}{9} (47^{\circ}\text{F} - 32) = 8.3^{\circ}\text{C}$

QC 1.3 $8.55 \cancel{\text{mi}} \left(\frac{1.609 \cancel{\text{km}}}{1 \cancel{\text{mi}}} \right) = 13.8 \text{ km}$

QC 1.4 $\frac{332 \cancel{\text{mi}}}{1} \left(\frac{1 \cancel{\text{km}}}{1000 \cancel{\text{m}}} \right) \left(\frac{1 \cancel{\text{mi}}}{1.609 \cancel{\text{km}}} \right) \left(\frac{60 \cancel{\text{s}}}{1 \cancel{\text{min}}} \right) \left(\frac{60 \cancel{\text{min}}}{1 \text{ hr}} \right) = 743 \text{ mi/hr}$

QC 1.5

$$\frac{50. \cancel{\text{mL sol}}}{\cancel{\text{hr}}} \left(\frac{1.5 \cancel{\text{ g antibiotic}}}{1000. \cancel{\text{ mL sol}}} \right) \left(\frac{1000 \text{ mg antibiotic}}{1 \cancel{\text{ g antibiotic}}} \right) \left(\frac{1 \cancel{\text{ hr}}}{60 \text{ min}} \right) = 1.3 \text{ mg antibiotic/min}$$

QC 1.6 Mass of Ti = $17.3 \cancel{\text{ mL}} \left(\frac{4.54 \text{ g Ti}}{1 \cancel{\text{ mL}}} \right) = 78.5 \text{ g Ti}$

QC 1.7 $d = m/V = \frac{56.8 \text{ g}}{23.4 \text{ mL}} = 2.43 \text{ g/mL}$

QC 1.8 The specific gravity of a substance is the density of this substance divided by the density of water, which is 1.000 g/mL.

$$\text{Specific gravity} = 1.016 = \frac{d}{1.000 \text{ g/mL}}$$

$$d = 1.016 \text{ g/mL}$$

At End of Chapter

- 1.4** (a) Chemical change: burning gasoline is converted to carbon dioxide and water.
 (b) Physical change: ice forming from liquid water is still H₂O, just a different state of matter.

Answers To Even Numbered Problems College Physics

John Adams Eldridge



Answers To Even Numbered Problems College Physics:

Instructor's Manual for College Physics, Second Edition Franklin Miller, 1967 **Student Solutions Manual for Mathematical Methods for Physics and Engineering** Kenneth Franklin Riley, Michael Paul Hobson, 2006 The authors present a wide ranging and comprehensive textbook for physical scientists who need to use the tools of mathematics for practical purposes

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