

HW #1-1 CHAPTER 1 (SUMMER ASSIGNMENT)

PROBLEMS, pg. 32 # 11, 12, 15, 16, 18, 21, 22, 28, 33, 35, 36, 37, 39, 41, 49, 54, 79, 81, 83, 85

Answers to Numerical Problems

1.21 density = 3.12 g/mL

1.22 mass of ethanol = 13.9 g

1.35 (a) 10.6 m
(b) 0.79 g
(c) 16.5 cm²

1.36 (a) 1.28
(b) 0.00318 mg = 3.18×10^{-3} mg
(c) 8.14×10^7 dm

1.37 (a) 226 dm
(b) 2.54×10^{-5} kg
(c) 0.556 L
(d) 0.0106 g/cm³

1.39 2808 mi/h

1.41 8.3 min

1.49 2.70×10^3 kg/m³

1.54 2.6 g/cm³

1.79 1.77×10^6 g Cu

1.81 6.0×10^{12} g Au ; value of gold = $\$7.4 \times 10^{13}$

1.83 7.3×10^{21} kg Si

1.85 9.5×10^{10} kg CO₂