

Chemistry

Worksheet #1

1 mile = 5,280 ft 1 inch = 2.54 cm 3 feet = 1 yard 454 g = 1 lb 946 mL = 1 qt

I. Set up and solve the following using dimensional analysis.

1. 5,400 in to mi
2. 16 weeks to sec
3. 54 yards to mm
4. 36 cm/sec to mph
5. 1.09 g/mL to lbs/gal
6. 19 in² to ft²
7. 840 in³ to cm³
8. 4.22 g/cm³ to lbs./ft³
9. 2.50 d/hr to kronin/wk (1 d = 8.60 krc)
10. 32 ft/sec² to meters/min²

II. Rewrite the following numbers using scientific notation.

1. 476
2. 840,000
3. 0.0822
4. 540×10^3
5. 0.000040087
6. 0.0067×10^{-3}
7. 16
8. 0.446
9. 28×10^{-4}
10. 0.0062×10^5

III. How many significant figures are in each of the following numbers or answers to the following mathematical operations.

1. 16.0
2. 54,000
3. 54,000.0
4. 0.000107
5. 6.007
6. 14/ 3.07
7. $5,400 \times 10^3 / 176$
8. $1,874 \times 36.2$
9. 14/ 367
10. $176 / 1.4809 \times 10^6$

IV. Perform the following mathematical operations and express your answers to the proper number of significant figures.

1. $642 \times (4.0 \times 10^{-5})$
2. $17 / 3.88 \times 10^7$
3. $(2.9 \times 10^{-5}) \times (8.1 \times 10^2)$
4. $(4.3 \times 10^{-5})^3$
5. $5.40 \times 10^{-18} / 769$
6. $59 \times (3.24 \times 10^{-2}) / 4.80 \times 10^4$
7. $42 \times (6.02 \times 10^{23}) / .016$
8. $12.0 / 6.02 \times 10^{23}$
9. $0.00000016 / 74.3$
10. $10.0 / 54,600$

V. Answer the following questions keeping in mind significant figures and dimensional analysis.

1. What is the density of an object that has a mass of 67.0 g and a volume of 14.7 mL?
2. What is the density of an object that has a mass of 17.0 g and is a cube with dimensions of 1.2 cm x 7.4 cm x 3.0 cm?
3. What volume will 88.0 g of an object with a density of 3.44 g/ mL occupy?
4. How many quarts will 15.0 lbs of a liquid with a density of 2.08 g/ mL occupy?
5. What will be the mass of 0.047 liters of a substance with a density of 8.73 g/ mL?

Modeling Chemistry Unit 6 5

Terry C. Jones



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