

Review for Final Exam – Summer Packet

Determine the number of Significant figures for each of the following:

1. 82342
2. 342.020
3. 10920
4. 1293.000
5. 0.00003023
6. 0.0131

Solve the following:

1. $4.214 \text{ m} \times 21.1 \text{ m}$
2. $123.0 \text{ g} + 8.134 \text{ g}$
3. $502.1 \text{ kg}^3 / 5.2123 \text{ kg}$
4. $78.21 \text{ mm} - 8 \text{ mm}$

Solve the following problems involving density:

1. The mass of a wooden block is 10.542 g and the volume is 3.57 cm³. What is the density of the wooden block?
2. When dropped in a graduated cylinder a metal pipe displaces 5.3 mL of water and has a mass of 100.3 g. What is the density of the metal pipe?
3. What is the volume of a ball that has a mass of 423.1 g and a density of 0.672 cm³?

Convert the following:

1. 659 lbs → kg
2. 801.2 mm → yds
3. 88 gal → L
4. 410 km → miles
5. 482.31 oz → dg