1. A student measures the width of a wire to be 2.8 mm. How many nanometers is this?

[1] _____

2. How many significant digits are there in each of the following measurements?

a) 4460 kg
b) 911.29 cm
c) 0.6040 g

[2] _____

3. A student determines the density of iron to be 8.59 g/cm^3. The correct value is 7.87 g/cm^3. Find the percent error in her measurement.

[3] _____

4. Convert each of the following quantities.

a) 120 joules to calories
b) 4540 Calories to calories
c) 1.60 Calories to joules

[4] _____

5. The mass of an object is determined to be 38.9 kg. How many μg is this?

[5] _____

6. Do the following calculations and express the answer in the correct number of significant digits.

a) 15.6 mL + 29 mL + 28.66 mL
b) 0.82 cm x 36.8 cm

[6] _____