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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/cm³. The correct value is 7.87 g/cm³. 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] _____