Name: _____ Class: _____ Date: _____ **Grade 4 Weekly Quiz#6**

How many significant figures are in the following measurements?

1.) 0.176 g _____
2.) 6007 cm _____
3.) 5000 m _____
4.) 0.00007 mA _____
5.) 0.0007.2 km _____
6.) 0.200 kg _____
7.) 270.0000 mm _____
8.) 0.00040 g _____
9.) 0.000 mg _____

Calculate and express (your answer) with the correct number of sig figs (SF) units.

10.) 9.407 cm × 104.229 cm = _____
11.) 9.407 mA ÷ 3.2 mA = _____
12.) 0.00 L + 23.5 mL = _____
13.) 6.12 g + 9.407 g = _____

Convert the following measurements from scientific notation to standard form.

14.) 5.0×10^{3} mg _____
15.) 2.345×10^{-4} cm _____
16.) 9.407×10^{6} kg _____
17.) 2.407×10^{-1} m _____

Convert the following measurements to scientific notation.

18.) 0.0000762 mA _____
19.) 304.007 cm _____
20.) 6704.000 g _____
21.) 0.0067 L _____

Calculate and express (in scientific notation).

22.) $(3.0 \times 10^{4}$ mA) + $(2.0 \times 10^{4}$ mA) = _____
23.) $(3.0 \times 10^{4}$ cm) × $(4.00 \times 10^{4}$ cm) = _____
24.) $(8 \times 10^{4}$ mL) + $(2 \times 10^{4}$ mL) = _____
25.) $(3.00 \times 10^{4}$ mm) × $(7.0 \times 10^{4}$ mm) = _____

Match the type of measurement to the appropriate metric unit.

26.) Mass _____ a.) Liter
27.) Volume _____ b.) Gram
28.) Length _____ c.) Meter

Write each measurement (between the metric base) below.

29.) 1 microm = 100 nanometer a.) _____ b.) _____
30.) 1 mm = 100 Micro a.) _____ b.) _____
31.) 12 micro = 1 Kilo a.) _____ b.) _____

Solve the following problems. SHOW ALL WORK!!!

32.) 315 g = _____ mg