

**Worksheet on the Metric System**

Length: 1 km = 1,000 m / 1 m = 100 cm / 1 cm = 10 mm Mass: 1 kg = 1,000 g / 1 g = 1,000 mg Volume: 1 L = 1,000 mL / 1 mL = 1 cm <sup>3</sup>
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*Answer the following questions on a separate piece of paper. All work must be shown for full credit.*

1. In order to compare the results of several experiments, you need to have all your data in the same unit. Convert the following measurements to the same unit.  
16 kg      888 g      0.0002 kg      155 mg
2. A recipe calls for 300 mL of water. You add 0.25 L. Have you put in too much, too little, or the right amount?
3. Determine which of the following measurements is largest: 1800 cm, 2.1 m, 0.0017 km.
4. You are told that you need a jar with a volume of at least 150 cm<sup>3</sup>. The label on the jar you find says 0.16 L. Can you use it?
5. Calculate the number of seconds in one year. Then calculate the number of seconds in a decade.
6. The length of the Nile River is about 6649 kilometers. How many meters is this? How many centimeters is this? How many millimeters is this?
7. A blue whale is about 33 m in length. How many cm is this?
8. Mount Everest is about 8.8 km high. How high is it in mm?
9. A Ping-Pong ball has a mass of about 2,500 mg. What is its mass in g?
10. An elephant is about 6300 kg in mass. What is its mass in g?