

## Physical Science Worksheet: Measurement

### Short Answer

- Which is the number  $3.402 \times 10^3$  g written in ordinary notation?
- Which is the number  $3.02 \times 10^{-5}$  s written in ordinary notation?
- The accepted density for copper is 8.96g/mL. Calculate the percent error for when you found the density to be 9.02g/mL.
- Accepted amount of a crystal produced in a lab is 5.61g. When you performed the lab, you produced 5.58g. I told you once that in one of my chemistry labs our percent error had to be less than 0.5% to pass the lab. So, did you pass this lab?
- Which number is 438904s written as scientific notation?
- Which is the number 0.004583mm written as scientific notation?
- Convert 16.7m/s to km/h.
- The accepted amount of salt crystals produced in a lab is 13.22g. When you performed the lab, you only produced 8.32g. Calculate your percent error.
- Convert 83.62km/h to m/s.
- The accepted length of a steel pipe is 3.8m. Calculate the percent error for the pipe when you measured 3.6m.
- Round the following number to 4 significant figures: 0.0000347943.
- Round the following number to 3 significant figures: 0.0000004862468.
- Round the following number to 2 significant figures: 0.0000000006450.
- Round the following number to 5 significant figures: 574129546.
- Round the following number to 3 significant figures: 648724.
- Round the following number to 4 significant figures: 785650.
- Round the following number to 7 significant figures: 942386750.
- What are the two main types of scale?
- A measurement standard is defined as \_\_\_\_\_.
- How many meters are there in 1,865 cm?
- A beaker contains 0.32 L of water. What is the volume of this water in milliliters?
- A box is 25 cm long, 6 cm wide, and 4 cm high. How many cubic centimeters of water can it hold?
- When you measure something in meters cubed, you are measuring \_\_\_\_\_.
- A cubic centimeter can be expressed as \_\_\_\_\_.
- To make a scale drawing of a basketball court, which of the following scales would be most useful?
- The quantity of matter per unit volume is \_\_\_\_\_.
- All of the following are SI units for density except \_\_\_\_\_.
- 0.25 g is equivalent to \_\_\_\_\_.
- 1.06 L of water is equivalent to \_\_\_\_\_.
- The number of grams equal to 0.5 kg is \_\_\_\_\_.
- How many minutes are in 1 week?
- Which of these measurements has been expressed to four significant figures?
- The number of significant figures in the measurement 2010 cm is \_\_\_\_\_.
- The dimensions of a rectangular solid are measured to be 1.27 cm, 1.3 cm, and 2.5 cm. The volume should be recorded as \_\_\_\_\_.
- The measurement 0.020 L is the same as \_\_\_\_\_.
- Complete the following table.

SI Base Units		
Quantity	Base unit	Unit abbreviation
		s
Mass		
	kelvin	
Length		