

## Chapter 1 Section 2 Guided Reading

1. Two meanings of identifying \_\_\_\_\_ are one particular moment, and a quantity or interval.
2. In our science class, we measure and record time in  
a) hours                      b) light years                      c) seconds
3. What is your age in seconds? (show your work!) Is this an appropriate way to discuss your age?
4. To convert a time into seconds, 1) separate the total time into amount of time in each unit, 2) convert each separate quantity of time into seconds, and 3) \_\_\_\_\_ all the seconds.
5. \_\_\_\_\_ describes how far it is from one place to another.  
a) weight                      b) distance                      c) time
6. The basic unit of measurement for length in the metric system is the \_\_\_\_\_.  
a) centimeter                      b) kilometer                      c) meter                      d) millimeter
7. Based on Figure 1.8, how was the length of a meter originally determined?
8. Find the values for the bolt, the pencil, and the tack on page 12.
9. A light year is the \_\_\_\_\_ light travels in one year.
10. What is the value of a light year?