## **Apprenticeship Math 12**

## **PRACTICE QUIZ – Precision and Uncertainty**

Name:	
Date:	

1. Canadian swimmer Annamay Pierse recorded a time of 2:20.12 (recorded as min:sec) in the 200 metre breaststroke.

a) What is the precision of the measurement?

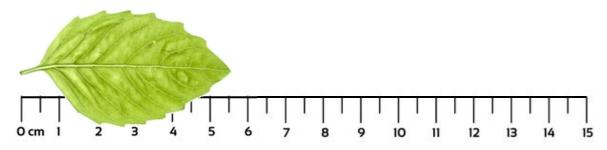
precision:

b) What is the range of possible values for her actual time?

minimum time:

maximum time:

2. Examine the following image:



a) What is the precision of the measuring device?

precision:

b) What is the measured length, including uncertainty (*measured value* ± *measurement uncertainty*).

measured length: \_\_\_\_\_ ± \_\_\_\_

c) What are the maximum and minimum possible lengths?

maximum: \_\_\_\_\_

minimum:

3. Determine the length of the item below, including uncertainty (*measured value* ± *measurement uncertainty*).



measured length: \_\_\_\_\_ ± \_\_\_\_

4. Roxana is completing an art project. She measures off two pieces of trim, recording the lengths as follows:

$$125 \ cm \pm 0.5 \ cm$$

 $82 \ cm \pm 0.5 \ cm$ 

a) What is the combined length of the two pieces, including uncertainty?

combined length: \_\_\_\_\_ ± \_\_\_\_

b) What is the difference between the lengths of the two pieces, including uncertainty?

difference: \_\_\_\_\_ ± \_\_\_\_