Apprenticeship Math 12

## PRACTICE QUIZ - Precision and Uncertainty

Name: $\qquad$
Date: $\qquad$

1. Canadian swimmer Annamay Pierse recorded a time of $2: 20.12$ (recorded as $\mathrm{min}: \mathrm{sec})$ in the 200 metre breaststroke.
a) What is the precision of the measurement?
precision: $\qquad$
b) What is the range of possible values for her actual time?
minimum time: $\qquad$
maximum time: $\qquad$
2. Examine the following image:

a) What is the precision of the measuring device?
precision: $\qquad$
b) What is the measured length, including uncertainty (measured value $\pm$ measurement uncertainty).
measured length: $\qquad$ $\pm$ $\qquad$
c) What are the maximum and minimum possible lengths?
$\qquad$
minimum: $\qquad$
3. Determine the length of the item below, including uncertainty (measured value $\pm$ measurement uncertainty).

4. Roxana is completing an art project. She measures off two pieces of trim, recording the lengths as follows:
$125 \mathrm{~cm} \pm 0.5 \mathrm{~cm}$
$82 \mathrm{~cm} \pm 0.5 \mathrm{~cm}$
a) What is the combined length of the two pieces, including uncertainty?
combined length: $\qquad$ $\pm$ $\qquad$
b) What is the difference between the lengths of the two pieces, including uncertainty?
difference: $\qquad$ $\pm$ $\qquad$
