

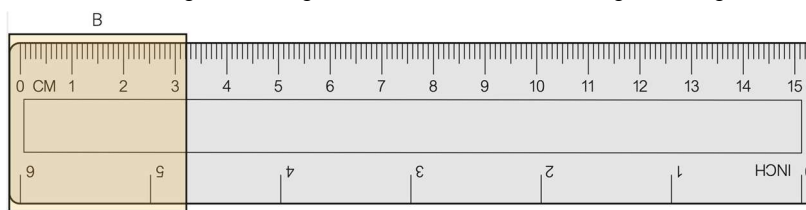
### CONCEPT: SIGNIFICANT FIGURES: PRECISION IN MEASUREMENTS

- The more significant figures in a measurement then the more precise it is.
  - A reading of 25.00 mL is more precise than just 25 mL.

### Recording Measurements

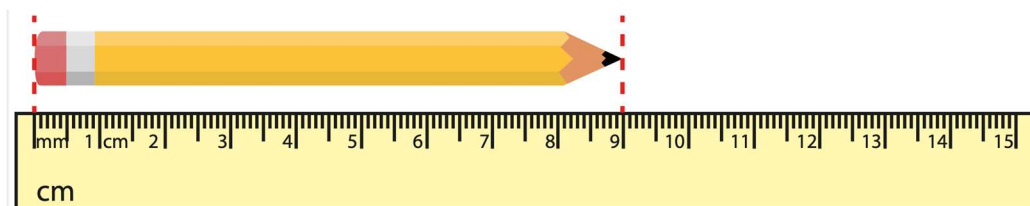
- When taking a measurement, you must include all of the known numbers plus an additional \_\_\_\_\_ place.
  - EYEBALL TEST: Based on an estimate or best guess from looking.

**EXAMPLE:** Determine the number of significant figures involved in measuring the length of the square.



- a) 3 cm                      b) 3.2 cm                      c) 3.20 cm                      d) 3.200 cm

**PRACTICE:** Read the length of the pencil to the correct number of significant figures.



- a) 8.0 cm                      b) 8.000 cm                      c) 9 cm                      d) 9.0 cm                      e) 9.00 cm

**PRACTICE:** What is the correct reading for the liquid in the burette provided below?

- a) 7 mL  
b) 7.0 mL  
c) 7.20 mL  
d) 7.00 mL  
e) 6.80 mL

