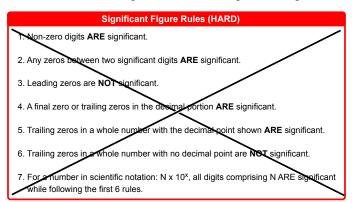
CONCEPT: SIGNIFICANT FIGURES

- Significant figures indicate the level of _____ involved with measurements and recordings.
 - □ A number with more significant figures is more _____.
 - □ Determining the number of significant figures for any given value can be easy depending on how you do it.



Significant Figure Rules (EASY)
If your number has a decimal point move from to Start counting once you get to your first non-zero number and keep counting until the end.
0.000250
2. If your number has NO decimal point move from to
☐ Start counting once you get to your first non-zero number and keep counting until the end.
7055

EXAMPLE 1: How many sig figs does each number contain?

(1) 0.0001010 m

(2) 10030 s

(3) 2.00 x 10³ m

(4) 14 people

- Multiplication/Division: Measurement with least ______ determines final answer.
- Addition/Subtraction: Measurement with least ______ determines final answer.

EXAMPLE 2: Perform the following calculations to the right number of sig figs:

$$\frac{(0.999+1.01)\cdot(15.1-0.815)}{(0.010)(16)+(33.3+7.5)}$$

PRACTICE: SIGNIFICANT FIGURES

EXAMPLE: Read the water level with the correct number of significant figures.

A) 6.80 mL

B) 7 mL

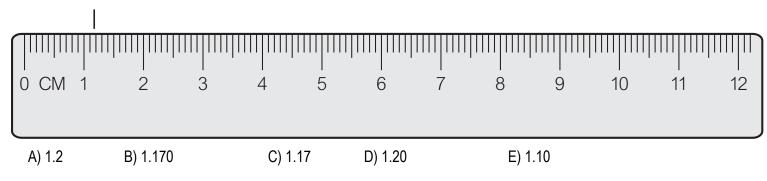
C) 7.0 mL

D) 7.00 mL

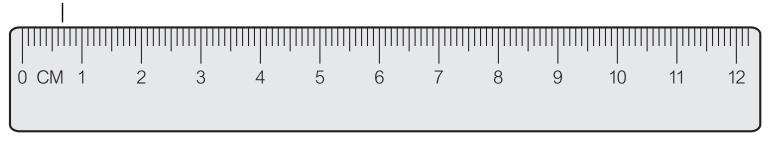
E) 7.20 mL



PRACTICE 1: Read the ruler measurement to the correct number of significant figures.



PRACTICE 2: Read the ruler measurement to the correct number of significant figures.



A) 0.7

B) 0.6

C) 0.70

D) 0.68

E) 0.60