## **CONCEPT: SIGNIFICANT FIGURES**

• Significant Figures: the numbers that contribute to the \_\_\_\_\_ associated with any value.

Significant Figure Rules (HARD)			
Non-zero digits ARE significant.			
Any zeros setween two significant digits ARE significant.			
3. Leading zeros are <b>NOT</b> significant.			
A final zero or trailing zeros in the decimal portion ARE significant.			
5. Trailing zeros in a whole number with the decimal point shown ARE significant.			
6. Trailing zeros in a whole number with no decimal point are NOT significant.			
7. For number in scientific notation: N x 10 <sup>x</sup> , all digits comprising N ARE significant while following the first 6 rules.			

	Significant Figure	Rules (EASY)	
•	has a decimal point mance you get to your first no		
	0.000250	8.03 x 1	0 <sup>-5</sup>
,	has NO decimal point		
	705	55	
	: A value or integer the		
1	25 students	12 ea	as

**EXAMPLE:** Determine the number of significant figures in the following value: 0.003840

PRACTICE: How many sig figs does each number contain?

a) 100. min

b)  $17.3 \times 10^3 \,\text{mL}$ 

c) 10 apples

**PRACTICE:** Indicate the number of significant figures in the following:

A liter is equivalent to 1.059 qt.

**PRACTICE:** How many significant figures are contained in the following measurement?

3,482,005 mg