CONCEPT: MATH WITH SIG FIGS

• When using math operations to calculate values, there are additional rules to determine # of Sig Figs:

EXAMPLE Write the answer for the following calculations below, expressed with the appropriate # of Sig Figs.

Rule 1

IF + | - ONLY, Round answer to same [Sig Figs | Decimal Places] as # with <u>least</u> [Sig Figs | Decimal Places]

Rule 2

IF × | ÷ ONLY, Round answer to same [Sig Figs | Decimal Places] as # with <u>least</u> [Sig Figs | Decimal Places]

$$\textbf{\textit{B}}) \quad 43.5287 \, \div \, 0.05192 \, \times \, 0.0023$$

Rule 3

IF + | − <u>AND</u> × | ÷, For all intermediate steps: Use PEMDAS, write extra digits & mark last allowed Sig Fig

For final answer: Round according to Rule 1 or 2

$$(3.86200 + 0.0987) \times 0.1345$$

