

CONCEPT: SIGNIFICANT FIGURES: IN CALCULATIONS

Multiplication and Division

- When either multiplying or dividing different numbers the final answer will contain the least _____.

EXAMPLE: Perform the following calculation to the right number of sig figs:

$$(3.16) \times (0.003027) \times (5.7 \times 10^{-3})$$

Addition and Subtraction

- When either adding or subtracting different numbers the final answer will contain the least _____.

EXAMPLE: Perform the following calculation to the right number of sig figs:

$$402.09 - 212.2 + 2.671$$

Mixed Operations

- When dealing with a mixture multiplication, division, addition and subtraction we must follow the order of operations.
 - **PEMDAS** stands for _____, _____, _____, & _____.

EXAMPLE: Perform the following calculation to the right number of sig figs:

$$(8.829 - 6.5) \times (2.920 + 1.11)$$

CONCEPT: SIGNIFICANT FIGURES: IN CALCULATIONS

PRACTICE: Perform the following calculation to the right number of sig figs:

$$[(1.7 \times 10^6) \div (2.63 \times 10^5)] + 6.96$$

PRACTICE: What answer should be reported, with the correct number of significant figures, for the following calculation?

$$\frac{42.00 - 40.915}{11.50 \times 1.001}$$