



Mr. Science Teacher[®]
The Best Way to Get an A![™]
www.mrscienceteacher.com



Significant Digits - Scientific Notation

Carry out each operation to the correct number of significant digits

A. $(2.41 \times 10^{-3}) + (0.23 \times 10^{-3}) + (14.8 \times 10^{-3}) = \underline{\hspace{2cm}}$

$$\begin{array}{r} 2.41 \times 10^{-3} \\ 0.23 \times 10^{-3} \\ + 14.8 \times 10^{-3} \\ \hline 17.44 \times 10^{-3} \end{array}$$

$$17.4 \times 10^{-3}$$

$$1.74 \times 10^{-2}$$

B. $(2.78 \times 10^3) + (1.23 \times 10^2) + (1.009 \times 10^2) = \underline{\hspace{2cm}}$

$$(27.8 \times 10^2) + (1.23 \times 10^2) + (1.009 \times 10^2)$$

$$\begin{array}{r} 27.8 \times 10^2 \\ 1.23 \times 10^2 \\ + 1.009 \times 10^2 \\ \hline 30.039 \times 10^2 \end{array}$$

$$30.0 \times 10^2$$

$$3.00 \times 10^3$$