Multiplication and Division-
How many significant digits should the results of these calculations have?

a. $(4500)(0.002)(6.9 \times 10^3)$ _____

b. $(3.00 \times 10^{-8})(0.003010)$ _____

c. $\dfrac{(9.002 \times 10^7)(7200)}{(0.080)(6.1159 \times 10^2)}$ _____

Addition and Subtraction-
Circle the last column to which these calculated answers will be rounded:

$$
\begin{array}{r}
1005.2 \\
+\ \ 26.35 \\
+\ \ \ \ 0.0028 \\
\hline
\end{array}
\qquad
\begin{array}{r}
64.800 \\
+\,8940 \\
-\ \ 78.066 \\
\hline
\end{array}
\qquad
\begin{array}{r}
0.0055 \\
-0.01127 \\
-0.70 \\
\hline
\end{array}
$$

Rounding:
Round to three (3) significant digits:

a. 3.14159 _____   d. 124,500 _____

b. 0.002927 _____   e. 12.98   _____

c. 23998   _____   f. 55.650001 _____

Calculations and Rounding:
Perform these calculations and round to the correct number of significant digits.

a. 791.6 x 52 = _____

b. 98.4 – 0.0075 = _____

c. 852 x 27.0 = _____

d. 7500 +123.4 – 0.06 = _____

e. $(1.50)(1700)(2.0 \times 10^{-4})/3.4378 =$ _____

Review:
When measurements are accurate, they _____.
When measurements are precise, they _____.

Give the number of significant digits in these measurements:

a. 93,000,000 mi _____   e. 235,000 m _____

b. 404.3 kg _____   f. 0.7070 s _____

c. 0.00303 cm _____   g. 4500.0 m³ _____

d. 0.0027 g _____   h. 4.00×10^{-2} mm _____