

# Significant Figures Worksheet

1. Indicate how many significant figures there are in each of the following measured values.

246.32	<u>5</u>	1.008	<u>4</u>	700000	<u>1</u>
107.854	<u>6</u>	0.00340	<u>3</u>	350.670	<u>6</u>
100.3	<u>4</u>	14.600	<u>5</u>	1.0000	<u>5</u>
0.678	<u>3</u>	0.0001	<u>1</u>	320001	<u>6</u>

2. Calculate the answers to the appropriate number of significant figures.

$$\begin{array}{r} 32.567 \\ 135.0 \\ + 1.4567 \\ \hline 169.0237 \\ \hline 169.0 \end{array}$$

$$\begin{array}{r} 246.24 \\ 238.278 \\ + 98.3 \\ \hline 582.818 \\ \hline 582.8 \end{array}$$

$$\begin{array}{r} 658.0 \\ 23.5478 \\ + 1345.29 \\ \hline 2026.8378 \\ \hline 2026.8 \end{array}$$

3. Calculate the answers to the appropriate number of significant figures.

a)  $23.7 \times 3.8 = 90$

e)  $43.678 \times 64.1 = 2800$

b)  $45.76 \times 0.25 = 11.4 \rightarrow 11$

f)  $1.678 \div 0.42 = 4.0$

c)  $81.04 \times 0.010 = 0.810$

g)  $28.367 \div 3.74 = 7.58$

d)  $6.47 \times 64.5 = 417$

h)  $4278 \div 1.006 = 4252$