

Significant Figures Worksheet

Significant Figures

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

246.32	_____	1.008	_____	700000	_____
107.854	_____	0.00340	_____	350.670	_____
100.3	_____	14.600	_____	1.0000	_____
0.678	_____	0.0001	_____	320001	_____

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

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

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

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

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

a) $23.7 \times 3.8 =$ _____ f) $1.678 / 0.42 =$ _____

b) $45.76 \times 0.25 =$ _____ g) $28.367 / 3.74 =$ _____

c) $81.04 \text{ g} \times 0.010 =$ _____ h) $4278 / 1.006 =$ _____

d) $6.47 \times 64.5 =$ _____ i) $(6.8 + 4.7) \times 17.44 =$ _____

e) $43.678 \times 64.1 =$ _____ j) $(320. - 22.7) \times 3.8 =$ _____

k) $\frac{(14.86 + 13.7) \times (65.346 - 4.10)}{(43.888 - 32.888)} =$ _____

Significant Figures Practice Worksheet

How many significant figures do the following numbers have?

- 1) 1234 _____
- 2) 0.023 _____
- 3) 890 _____
- 4) 91010 _____
- 5) 9010.0 _____
- 6) 1090.0010 _____
- 7) 0.00120 _____
- 8) 3.4×10^4 _____
- 9) 9.0×10^{-3} _____
- 10) 9.010×10^{-2} _____
- 11) 0.00030 _____
- 12) 1020010 _____
- 13) 780. _____
- 14) 1000 _____
- 15) 918.010 _____
- 16) 0.0001 _____
- 17) 0.00390 _____
- 18) 8120 _____
- 19) 7.991×10^{-10} _____
- 20) 72 _____