
Workshop 3 – Significant Figures

Show calculation setups and answers for all problems below.

1. Using the ruler shown on the page, what is the length of the dark rectangle to the correct number of significant figures?

_____ cm

2. How many significant figures



cant figures

are in each of the following numbers?

- (a) 8.57 _____ (b) 9.3 _____ (c) 6.20 _____ (d) 74,000 _____
 (e) 0.058 _____ (f) 0.0085 _____ (g) 0.0790 _____ (h) 0.4020 _____

3. How many significant figures should be in the answer to each of the following calculations? (You may need to solve the math to answer the question, but your final answer is the number of significant figures, NOT the numerical answer to the problem.)

(a)
$$\begin{array}{r} 16.20 \\ + 0.87 \\ \hline \end{array}$$

(a) _____

(b)
$$\begin{array}{r} 46.837 \\ - 9.5 \\ \hline \end{array}$$

(b) _____

(c) 23.3×1.73

(c) _____

(d) 3.1×6.4215

(d) _____

(e)
$$\frac{0.4273}{0.1853}$$

(e) _____

(f)
$$\frac{4.73 \times 8.31 \times 337}{834 \times 357}$$

(f) _____