

Significant Figure Worksheet.

1. Indicate the number of significant figures for each of the measurements.

37.2m	56cm	0.0000076s
0.80kg	301.5kg	789mm
56.02m	4.24 $\times 10^3$ m	5.00cm
2.999 $\times 10^6$ m/s	9.7 $\times 10^{-10}$ m	0.00015g
0.050m	5.6 $\times 10^2$	104.080J

2. Calculate the answer and express to the correct number of significant figures. Use scientific notation.

$$\begin{array}{ll} 37.2 + 0.12 + 363.55 = & 362.66 \div 29.2 = \\ 4005.34 \div 325.2600 = & 0.00076 \div 0.00060000 = \\ 2.4 \div 6.0 = & 0.23 \div 0.350 \div 4 = \\ 55 \div 0.540 \div 326 = & 0.0060 \div 55.1 \div 26 = \\ 750 \div 3 \div 1.3 = & (0.094) \div (720) \div 4.4 = \end{array}$$

3. Scientific notation is an expression of the type

$N \times 10^n$ where N is greater than 1 and less than 10 ($1 \leq N < 10$).

For example 5,190,000 is expressed as 5.19×10^6 .