Significant Figures Worksheet Solutions

Determine the number of significant figures in the following numbers?

712	6.738 x 10 ⁻⁹ 4	0.0807025
5651.006	1102	3.645 x 10 ⁻⁶ 4
784025	23.03	101.04
96.004	0.0090074	0.003343
0.03083	6.217 x 10 ¹ 4	9.3363 x 10 ⁻² 5
135.905	0.0402	6.02 x 10 ²³ 3
75002	0.6021006	5 x 10 ¹⁵ 1

Rewrite the numbers above representing the requested number of sig figs

When collecting data, the rule is that you must express your answer to one decimal place past the actual accuracy of the measuring device.

The mass of the sugar is accurate. The errors caused by the balance cancel out because they are present in both measurements.

It is important to use the correct number of significant digits when expressing measurements to keep us from communicating more accuracy in our measurements than are offered by our measurement devices.