

Science 10 – Practice Assignment

Significant Figures and Scientific Notation

Name: _____

How many significant figures are in each of the following?

356.23 M	_____	2000.0 kg	_____	000.03 lb	_____
6.7×10^5 kg	_____	8.78590×10^9 M	_____	999.010 mm	_____
00.020 mg	_____	10,001.09 s	_____	764 kg	_____

Convert the following to scientific notation form using the number of significant figures indicated in parentheses.

6777.77 kg (4)	_____
9090 m (2)	_____
22.003 mm (1)	_____
0.000452 mg (3)	_____
999,984,234 kg (3)	_____
0.003963 M (3)	_____
5768.33 J (2)	_____
0.942 kg (2)	_____
400 M (2)	_____
9,133,793 km (4)	_____

Perform the following calculations and show your answer with the correct number of significant figures:

$24.58 + 375.2$	_____	$2.4 + 9$	_____
$256.332 + 0.008$	_____	$23 + .003$	_____
$485.3 - 6.4$	_____	$88.0 - 0.4$	_____
34.55×24	_____	$77.0 \times .009$	_____
$15.3 / 3.444$	_____	2234×87.22	_____