

Name _____

Practice Worksheet for Significant Figures

1. State the number of significant digits in each measurement.

- | | | |
|----------------------|----------------------------------|------------------------------------|
| 1) 2804 m | 2) 2.84 km | 3) 5.029 m |
| 4) 0.003068 m | 5) 4.6 x 10⁵ m | 6) 4.06 x 10⁻⁵ m |
| 7) 750 m | 8) 75 m | 9) 75,000 m |
| 10) 75.00 m | 11) 75,000.0 m | 12) 10 cm |

2. Round the following numbers as indicated:

To four sig. figs.:

3.682417 **21.860051** **375.6523** **112.511** **45.4673**

To one sig fig:

41.87 **2.473** **5.687524** **125.3** **8.235**

To two sig figs:

22.494 **79.2588** **0.03062** **3.4125** **41.86632**

Round the last row of numbers of problem #2 to 2 sig figs using scientific notation:

4. Express the following numbers in their equivalent standard notational form. Then identify how many sig figs are in the number.

	<u>Scientific notation</u>	<u>#sig figs</u>
1) 123,876.3	_____	_____
2) 1,236,840	_____	_____
3) 422000	_____	_____
4) 0.000000000000211	_____	_____
5) 0.000238	_____	_____
6) 0.0000205	_____	_____