

Name _____

Regents Chemistry

Significant Figures HW Worksheet

Directions: Determine the number of significant figures in each of the following:

3427

0.00456

123,453

172

0.000984

0.502

3100.0×10^2

0.0114×10^4

107.2

0.0000455

2205.2

30.0×10^{-2}

0.982×10^{-3}

0.0473

650.502

3.03×10^{-1}

20.4×10^5

1.29

0.00565

1362205.2

450.0×10^3

Convert the following into proper scientific notation and state the number of significant figures in each number.

Number	# of Sig Figs	Scientific Notation
1) 135	_____	_____
2) 105	_____	_____
3) 1050	_____	_____
4) 10400.	_____	_____
5) 2050.00	_____	_____
6) 0.003	_____	_____
7) 0.0021	_____	_____
8) 0.0000401	_____	_____
9) 123.10	_____	_____
10) 1540.0×10^{-3}	_____	_____
11) 4.5×10^3	_____	_____
12) 0.0016×10^4	_____	_____
13) 133.14×10^6	_____	_____

Convert the following out of proper scientific notation and state the number of significant figures in each number.

SN	# of Sig Figs	Number
14) 1.4×10^{-4}	_____	_____
15) 1.05×10^3	_____	_____
16) 4.56×10^{-2}	_____	_____
17) 1.350×10^{-5}	_____	_____
18) 4×10^1	_____	_____
19) 3.512×10^3	_____	_____

