

Significant Figures and Scientific Notation

Name: _____

Part 1: For each number, determine the number of significant figures.

Number	# of Sig Figs	Number	#of Sig Figs
89025		1790	
7900		90.18	
56.452		0.00030	
10.06		0.000000007	
21000		1.0	
197		0.0000560	
6.0032×10^4		1.3400×10^{-4}	
4.5956040×10^{-5}		4.350×10^1	
1.8×10^0		6.58020×10^{-7}	
3.45×10^7		1.9×10^{11}	

Part 2: For each number, tell how many sig figs and convert to scientific notation

Regular Notation	Sig Figs	Scientific Notation
0.00254		
16.200		
5.8		
1560000000		
92400.		
0.0000450		
90		
0.000000000719		
1904		
732		

Part 3: For each number, tell how many sig figs and convert to regular notation

Scientific Notation	Sig Figs	Regular Notation
1.1×10^1		
5.71500×10^{-5}		
1×10^{-8}		
7.963×10^2		
1.3340×10^{-4}		
1.09×10^4		
2.1×10^{-6}		
9.16×10^{-3}		
9.841×10^4		
3.00400×10^0		

Math Functions with Significant Figures

Name: _____

Express the answer to each problem in the proper number of significant figures.
Then express the answer in scientific notation.

1) $3.45 + 1203$ = _____ Scientific Notation: _____

2) 3.045×193 = _____ Scientific Notation: _____

3) $16.98 / 305$ = _____ Scientific Notation: _____

4) $3.26 - 1.9888$ = _____ Scientific Notation: _____

5) 79.56×3450 = _____ Scientific Notation: _____

6) $137 + 190000.$ = _____ Scientific Notation: _____

7) $98 / 7$ = _____ Scientific Notation: _____

8) $259 / 64050$ = _____ Scientific Notation: _____

9) 590×189 = _____ Scientific Notation: _____

10) $5697 - 910$ = _____ Scientific Notation: _____

11) $84.5 + 1937.67$ = _____ Scientific Notation: _____