



Chem Skills Worksheet #1: Scientific Notation

Express the following numbers in scientific Notation.

	Standard Notation	Scientific Notation
1.	567	5.67×10^2
2.	.003	
3.	.0467	4.67×10^2
4.	14.77	
5.	3,000,000	3×10^6
6.	4.879	
7.	0.0000123	1.23×10^{-5}
8.	45,082	
9.	602,300,000,000	6.02×10^{11}
10.	16,430	
11.	0.16430	1.643×10^{-4}
12.	3,456,000	
13.	12	1.2×10^1
14.	1978	
15.	0.03621	3.621×10^{-2}
16.	68.69	
17.	0.00000826	8.26×10^{-6}
18.	101.2	
19.	0.0091254	9.1254×10^{-3}
20.	306,000,000	

Express the following numbers in standard Notation.

	Scientific Notation	Standard Notation
21.	3.564×10^3	3564
22.	5.882×10^1	
23.	2.98×10^{-2}	.0298
24.	3.7×10^0	
25.	9.439×10^7	94390000
26.	6.7×10^5	
27.	1.0×10^{17}	1000000000000000000
28.	7.0×10^{-2}	
29.	5.78×10^8	578000000
30.	9.32450×10^{-3}	
31.	1×10^{-6}	.000001
32.	7.465×10^2	
33.	3.14×10^3	3140
34.	2.00×10^{-4}	
35.	4×10^3	4000
36.	5.13×10^{-5}	
37.	6.03×10^{-8}	.0000000603
38.	6.68×10^0	
39.	7.24×10^2	724
40.	3.8×10^5	

Express the following numbers in Standard Notation and then in Scientific Notation

	Exponent Notation	Standard Notation	Scientific Notation
41.	645×10^5	64500000	6.45×10^7
42.	92562×10^{-3}		
43.	$.33 \times 10^7$	3300000	3.3×10^5
44.	$.0000000589 \times 10^3$		
45.	$.00422 \times 10^4$	42.2	4.22×10^1
46.	$.00422 \times 10^{-4}$		
47.	0.7×10^{-2}	.007	7×10^{-3}
48.	55.5×10^2		
49.	666×10^2	66600	6.66×10^5
50.	$.0055 \times 10^5$		