Scientific Notation - Lesson 1

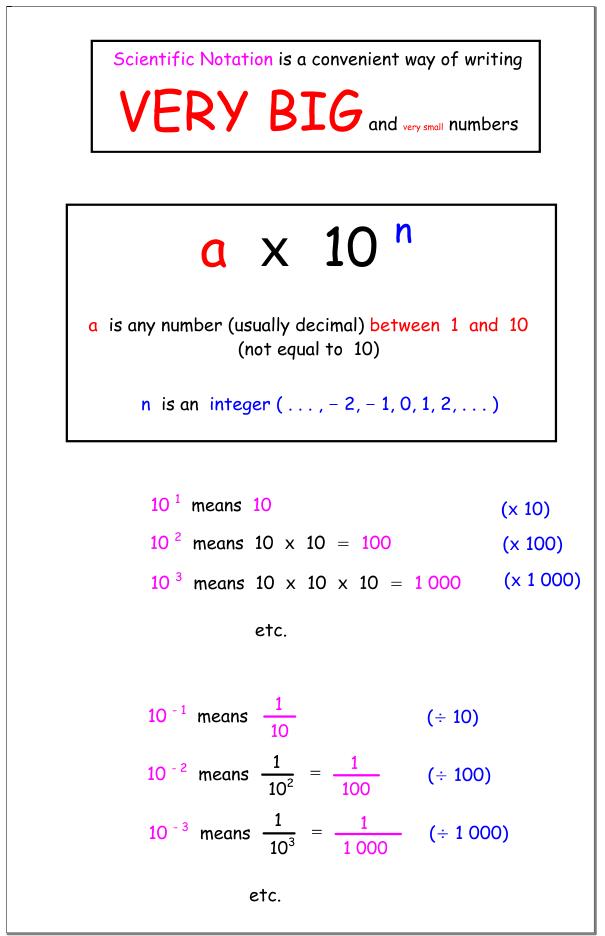
Scientific Notation (aka Standard Form) -Converting Both Ways

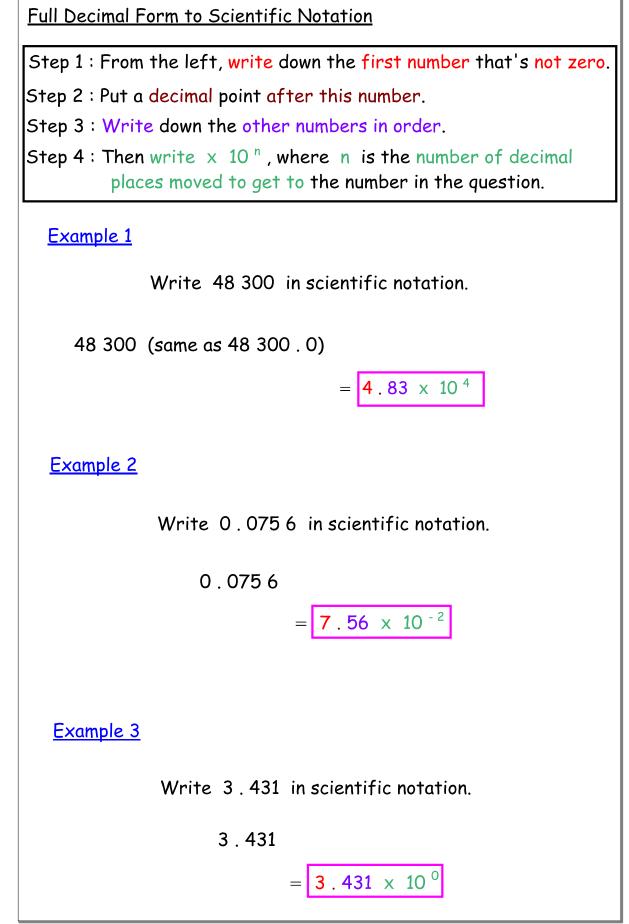
LI

• Change numbers between Full Decimal Form and Scientific Notation.

<u>SC</u>

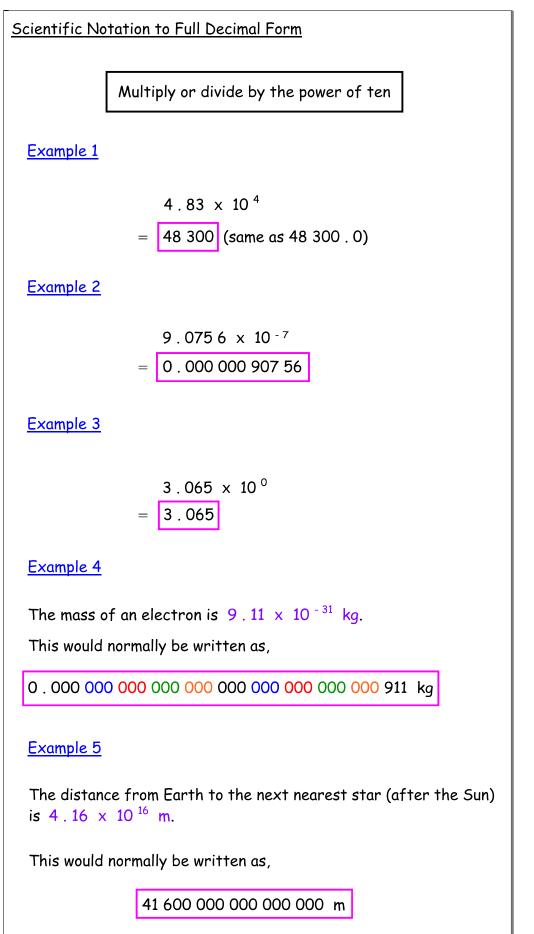
- Know how to move a decimal point in the correct direction.
- Use the 4-step strategy.





1	0 . 003 67	13	0.6078
2	46 000	14	4.044
3	1 665 000	15	0.00802
4	9.85	16	0.0000186087
5	0 . 007 009 7	17	0.0449
6	0 . 000 000 025 698	18	777 000
7	0 . 700 2	19	9 046
8	0.0222	20	0.000000582
9	854 300 000	21	0.000000277
10	0 . 000 008 211 27	22	9 821 000 000
11	90 900 000	23	8 843 200
12	0.000743	24	30 976 700 000

	Answ		
1	3.67 x 10 ⁻³	13	6.078 x 10 ⁻¹
2	4.6×10^{4}	14	4.044×10^{0}
3	1.665 x 10 ⁶	15	8.02 x 10 ⁻³
4	9.85 x 10 ⁰	16	1.86087 x 10 ⁻⁵
5	7 . 009 7 × 10 ^{- 3}	17	4.49 x 10 ⁻²
6	2 . 569 8 × 10 ^{- 8}	18	7.77 x 10 ⁵
7	7.002 x 10 ⁻¹	19	9.046 x 10 ³
8	2.22 x 10 ⁻²	20	5.82 x 10 ⁻⁸
9	8.543 × 10 ⁸	21	2.77 x 10 ⁻⁸
10	8 . 211 27 × 10 ^{- 6}	22	9.821 x 10 ⁹
11	9.09 x 10 ⁷	23	8 . 843 2 × 10 ⁶
12	7.43 × 10 ⁻⁴	24	3 . 097 67 x 10 10



1	3.67 x 10 ⁻⁴	13	6.078 x 10 ⁻³
2	4.6 × 10 ⁵	14	4.043 x 10 ⁰
3	1.665 \times 10 7	15	8.02 x 10 ⁻⁴
4	9.83 x 10 ⁰	16	1.86087 x 10 ⁻⁶
5	7.0097 x 10 ⁻²	17	4.49 x 10 ⁻¹
6	2.5698 x 10 ⁻⁷	18	7.77 × 10 ⁷
7	7.004 x 10 ⁻¹	19	9.046 x 10 ²
8	2.202 x 10 ⁻²	20	5.82 x 10 ⁻⁹
9	8.543 x 10 ⁹	21	2.77 x 10 ⁻⁷
10	8 . 211 27 x 10 ^{- 5}	22	9.821 × 10 ¹⁰
11	9.09 x 10 ⁶	23	8 . 843 2 \times 10 5
12	7.43 x 10 ⁻⁵	24	3.097 67 x 10 ¹¹

Answers						
1	0 . 000 367	13	0 . 006 078			
2	460 000	14	4.043			
3	16 650 000	15	0.000802			
4	9.83	16	0.00000186087			
5	0 . 070 097	17	0.449			
6	0 . 000 000 256 98	18	77 700 000			
7	0.7004	19	904.6			
8	0 . 022 02	20	0 . 000 000 005 82			
9	8 543 000 000	21	0.00000277			
10	0 . 000 082 112 7	22	98 210 000 000			
11	9 090 000	23	884 320			
12	0 . 000 074 3	24	309 767 000 000			