

# SCIENTIFIC & ENGINEERING NOTATION

## Exercise Sheet

201-943-DW (Applied Mathematics)

Fill in the blanks: SOLUTIONS

Regular Notation	Scientific Notation	Engineering Notation	Eng. Notation with Metric Prefixes
0.00001	$1 \times 10^{-5}$	$10 \times 10^{-6}$	10 $\mu$
0.00000145	$1.45 \times 10^{-6}$	$1.45 \times 10^{-6}$	1.45 $\mu$
0.00563	$5.63 \times 10^{-3}$	$5.63 \times 10^{-3}$	5.63 m
23 000	$2.3 \times 10^4$	$23 \times 10^3$	23k
920	$9.2 \times 10^2$	920	
102 450	$1.0245 \times 10^5$	$102.45 \times 10^3$	102.45 k
10	$1 \times 10^1$	10	
303 00000 000 000	$3.03 \times 10^{13}$	$30.3 \times 10^{12}$	30.3 T
45 780 000	$4.578 \times 10^7$	$45.78 \times 10^6$	45.78M
0.000000023	$2.3 \times 10^{-8}$	$23 \times 10^{-9}$	23 n
0.0754	$7.54 \times 10^{-2}$	$75.4 \times 10^{-3}$	75.4 m
$9802 \times 10^{-5}$	$9.802 \times 10^{-2}$	$98.02 \times 10^{-3}$	98.02 m
0.000 562 2	$5.622 \times 10^{-4}$	$562.2 \times 10^{-6}$	562.2 $\mu$
$23.3 \times 10^4$	$2.33 \times 10^5$	$233 \times 10^3$	233 k
4200 000 000 000	$4.2 \times 10^{12}$	$4.2 \times 10^{12}$	4.2T
$0.067 \times 10^{-9}$	$6.7 \times 10^{-11}$	$67 \times 10^{-12}$	67 p
7 250 000 000	$7.25 \times 10^9$	$7.25 \times 10^9$	7.25 G
0.000 000 001 23	$1.23 \times 10^{-9}$	$1.23 \times 10^{-9}$	1.23n
0.000 000 000 000 7582	$7.582 \times 10^{-13}$	$758.2 \times 10^{-15}$	758.2f
0.000 634	$6.34 \times 10^{-4}$	$634 \times 10^{-6}$	634 $\mu$
0.00000000005	$5 \times 10^{-11}$	$50 \times 10^{-12}$	50 p
1.1	$1.1 \times 10^0$	$1.1 \times 10^0$	
0.0323	$3.23 \times 10^{-2}$	$32.3 \times 10^{-3}$	32.3m
0.000 000 000 000 5424	$5.424 \times 10^{-16}$	$542.4 \times 10^{-18}$	542.4 a
1046092000	$1.046092 \times 10^9$	$1.046092 \times 10^9$	1.046092 G
0.000 000 000 39	$3.9 \times 10^{-10}$	$390 \times 10^{-12}$	390p
12 000 000 000 000 000	$1.2 \times 10^{19}$	$12 \times 10^{18}$	12 E
3 000 000 000	$3 \times 10^9$	$3 \times 10^9$	3G
0.00045	$4.5 \times 10^{-4}$	$450 \times 10^{-6}$	450 $\mu$
1 100 000 000 000 000	$1.1 \times 10^{15}$	$1.1 \times 10^{15}$	1.1P