

CHEMISTRY

Scientific Notation Practice II

A. Express the following numbers in correct scientific notation:

_____ 1. 8 720 000

_____ 2. 0.00 000 628

B. Rewrite the following numbers so they are in correct scientific notation:

_____ 3. 652.9×10^5

_____ 4. $0.00\ 598 \times 10^{-15}$

_____ 5. $0.0\ 259 \times 10^8$

C. Carry out the indicated operations and express your answer in correct scientific notation:

_____ 6. $(3.04 \times 10^{22}) + (3.04 \times 10^{23})$

_____ 7. $(6.54 \times 10^5) - (2.0 \times 10^3)$

_____ 8. $(2.5 \times 10^3) (3.62 \times 10^5)$

_____ 9. $(9.12 \times 10^1) (6.55 \times 10^{-2})$

_____ 10. $(3.2 \times 10^2) (2.0 \times 10^{-5}) (3 \times 10^4)$

_____ 11. $(3.80 \times 10^4) \div (1.25 \times 10^{-3})$

_____ 12. $(2.5 \times 10^{-7}) (5.0 \times 10^{-8})$

_____ $(9.5 \times 10^{-14}) (6.0 \times 10^8)$

_____ 13. $(389\ 000\ 000) (0.000\ 75)$

_____ 14. $(0.000\ 686\ 8) \div (87\ 000)$

_____ 15. $(3.5 \times 10^{18}) (1.47 \times 10^6) (3.442 \times 10^{-3}) (9.97 \times 10^5)$

_____ $(9 \times 10^{31}) (6.634 \times 10^8) (2.7 \times 10^4) (6.02 \times 10^{23})$