

Name

Key

Period

Date

Operations with Scientific Notation

These should all be solved without using a calculator. Make sure your answers are in proper scientific notation.

$$1. (2.5 \times 10^6)(3 \times 10^3) = \underline{7.5 \times 10^9}$$

$$2. (3 \times 10^{-5})(3 \times 10^{-10}) = \underline{9 \times 10^{-15}}$$

$$3. (4 \times 10^1)(2 \times 10^{11}) = \underline{8 \times 10^{12}}$$

$$4. (6 \times 10^5)(4 \times 10^3) = 24 \times 10^8 \\ = \underline{2.4 \times 10^9}$$

$$5. (5 \times 10^{-15})(7 \times 10^6) = 35 \times 10^{-9} \\ = \underline{3.5 \times 10^{-8}}$$

$$6. (2 \times 10^{-4})(7 \times 10^{-8}) = 14 \times 10^{-12} \\ = \underline{1.4 \times 10^{-11}}$$

$$7. (7 \times 10^6)(3 \times 10^{-7}) = 21 \times 10^{-1} \\ = \underline{2.1 \times 10^0}$$

$$8. (4 \times 10^{-10})(3 \times 10^{13}) = 12 \times 10^3 \\ = \underline{1.2 \times 10^4}$$

$$9. \frac{2.6 \times 10^{-3}}{1.3 \times 10^9} = \underline{2 \times 10^{-12}}$$

$$10. \frac{5 \times 10^8}{2 \times 10^3} = \underline{2.5 \times 10^5}$$

$$11. \frac{1.2 \times 10^7}{4 \times 10^5} = 0.3 \times 10^2 \\ = \underline{3 \times 10^1}$$

$$12. \frac{2.3 \times 10^{-3}}{4.6 \times 10^9} = 0.5 \times 10^{-12} \\ = \underline{5 \times 10^{-13}}$$

$$13. \frac{7 \times 10^{-5}}{3.5 \times 10^{-9}} = 0.5 \times 10^4 \\ = \underline{5 \times 10^3}$$

$$14. \frac{9 \times 10^{-3}}{3 \times 10^{-3}} = \underline{3 \times 10^0}$$

$$15. \frac{2.8 \times 10^0}{4 \times 10^{-7}} = 0.7 \times 10^7 \\ = \underline{7 \times 10^6}$$

$$16. \frac{2 \times 10^{-2}}{8 \times 10^{-11}} = 0.25 \times 10^9 \\ = \underline{2.5 \times 10^8}$$