

Name

Key

Block

Date

Multiplying and Dividing with Scientific Notation

No calculators needed.

1. $(2 \times 10^7) \cdot (1.1 \times 10^4)$

2.2×10^{11}

2. $(1.2 \times 10^3) \cdot (3 \times 10^5)$

3.6×10^8

3. $(4 \times 10^3) \cdot (2 \times 10^9)$

8×10^{12}

4. $(3 \times 10^{-4}) \cdot (3 \times 10^8)$

9×10^4

5. $(5 \times 10^8) \cdot (3 \times 10^8)$

15×10^{16}
 1.5×10^{17}

6. $(8 \times 10^2) \cdot (7 \times 10^7)$

56×10^9
 5.6×10^{10}

7. $(6 \times 10^{-4}) \cdot (4 \times 10^{-3})$

24×10^{-7}
 2.4×10^{-6}

8. $(5 \times 10^{-10}) \cdot (8 \times 10^4)$

40×10^{-6}
 4×10^{-5}

9. $(7 \times 10^5) \cdot (2 \times 10^4) \cdot (2 \times 10^3)$

28×10^{12}
 2.8×10^{13}

10. $(5 \times 10^7) \cdot (2 \times 10^{-4}) \cdot (4 \times 10^6)$

40×10^9
 4.0×10^{10}

$$11. \frac{8 \times 10^{10}}{2 \times 10^7} = 4 \times 10^3$$

$$12. \frac{9 \times 10^9}{3 \times 10^{-4}} = 3 \times 10^{13}$$

$$13. \frac{1.2 \times 10^6}{6 \times 10^3} = 0.2 \times 10^3$$

$$= 2 \times 10^2$$

$$14. \frac{16 \times 10^4}{2 \times 10^6} = 8 \times 10^{-2}$$

$$15. \frac{2.4 \times 10^5}{1.2 \times 10^7} = 2 \times 10^{-2}$$

$$16. \frac{1.0 \times 10^{17}}{2 \times 10^{11}} = 0.5 \times 10^6$$

$$= 5 \times 10^5$$

$$17. \frac{7 \times 10^6}{2 \times 10^{-2}} = 3.5 \times 10^8$$

$$18. \frac{(\cancel{5} \times 10^6)(2 \times 10^3)(3 \times 10^3)}{(\cancel{5} \times 10^4)} =$$

$$6 \times 10^8$$

$$19. \frac{(\cancel{4} \times 10^6)(\cancel{2} \times 10^3)}{(\cancel{8} \times 10^{-4})(2 \times 10^4)} =$$

$$= 0.5 \times 10^9$$

$$= 5 \times 10^8$$

$$20. \frac{(\cancel{4} \times 10^6)(\cancel{5} \times 10^{-3})}{(\cancel{8} \times 10^{-4})(\cancel{5} \times 10^3)} = \frac{10^3}{2 \times 10^{-1}}$$

$$= 0.5 \times 10^4$$

$$= 5 \times 10^3$$