

Scientific Notation

Name: KEY Blk: _____

Express each number in correct scientific notation:

1 pt each

- 0.00374 3.74×10^{-3}
- 64.604×10^7 6.4604×10^8
- 0.0000142×10^{-5} 1.42×10^{-4}
- 843×10^5 8.43×10^7
- 0.00212×10^{12} 2.12×10^9
- 49000.3 4.90003×10^4
- 17645×10^{-15} 1.7645×10^{-11}
- 1200 1.2×10^3
- 0.06627×10^{-25} 6.627×10^{-27}
- 17645 1.7645×10^4
- 94.00×10^6 9.400×10^7
- 0.00839×10^2 8.39×10^{-1}
- 9204×10^5 9.204×10^8
- 0.00266×10^3 2.66×10^0
- 4063.89 4.06389×10^3

1 pt each

Complete the following problems. You must write your answers in scientific notation.

1. $(7.6 \times 10^{-6})(6.0 \times 10^9)$ 4.56×10^4
2. $\frac{1.26 \times 10^{-6}}{6.0 \times 10^8}$ 2.1×10^{-15}
3. $8.9 \times 10^7 + 2.1 \times 10^5$ 8.921×10^7
4. $3.29 \times 10^4 - 1.21 \times 10^5$ -8.81×10^4
5. $(6.6 \times 10^{-34})(3.0 \times 10^8)$ 1.98×10^{-25}
6. $\frac{4.74 \times 10^6}{2.0 \times 10^{12}}$ 2.37×10^{-6}
7. $(3.0 \times 10^{-4})(4.6 \times 10^{-9})$ 1.38×10^{-12}
8. $\frac{2.0 \times 10^6}{4.0 \times 10^{-3}}$ 5×10^8
9. $(4.0 \times 10^{-9})^3$ 6.4×10^{-26}
10. $(3.9 \times 10^{19})(2.1 \times 10^{-9})$ 8.19×10^{10}
11. $\frac{2.6 \times 10^{-4}}{2.0 \times 10^{-6}}$ 1.3×10^2
12. $(6.022 \times 10^{23})(3.000)$ 1.8066×10^{24}