

PracticeStudent Edition
Pages 506-512**Scientific Notation****Express each number in scientific notation.**

1. 6387

2. 560,000

3. 41,000,000

4. 0.003157

5. 0.00009621

6. 0.00000000814

7. 4740×10^5

8. 56×10^7

9. 0.0057×10^3

10. 0.076×10^{-3}

11. 915,600,000,000

12. 0.0000000000112

Evaluate. Express each result in scientific and decimal notation.

13. $\frac{5.1 \times 10^6}{1.5 \times 10^2}$

14. $\frac{3 \times 10^{-2}}{1.2 \times 10^3}$

15. $\frac{7.2 \times 10^{-5}}{4 \times 10^{-3}}$

16. $\frac{1.17 \times 10^2}{5 \times 10^{-1}}$

17. $\frac{1.82 \times 10^5}{9.1 \times 10^7}$

18. $\frac{1.68 \times 10^4}{8.4 \times 10^{-4}}$

19. $\frac{1.2 \times 10^7}{6.0 \times 10^3}$

20. $\frac{6.72 \times 10^3}{4.2 \times 10^8}$

21. $\frac{9.6 \times 10^{-4}}{1.6 \times 10^{-5}}$

22. $(3.1 \times 10^7)(2 \times 10^{-5})$

23. $(5 \times 10^{-2})(1.4 \times 10^{-4})$

24. $(8.3 \times 10^2)(9.1 \times 10^{-7})$

25. $(9.72 \times 10^7)(4.8 \times 10^{-10})$

26. $(1.39 \times 10^{-3})(5.82 \times 10^{-6})$

27. $(2.5 \times 10^5)(3.62 \times 10^{-5})$

28. $(9.8 \times 10^6)(1.12 \times 10^2)$

29. $(7.8 \times 10^6)(3.45 \times 10^{-6})$