

**7-4 Skills Practice****Scientific Notation****Express each number in scientific notation.**

1.  $3,400,000,000$

2.  $0.000000312$

3.  $2,091,000$

4.  $980,200,000,000,000$

5.  $0.00000000008$

6.  $0.00142$

**Express each number in standard form.**

7.  $2.1 \times 10^5$

8.  $8.023 \times 10^{-7}$

9.  $3.63 \times 10^{-6}$

10.  $7.15 \times 10^8$

11.  $1.86 \times 10^{-4}$

12.  $4.9 \times 10^5$

**Evaluate each product. Express the results in both scientific notation and standard form.**

13.  $(6.1 \times 10^5)(2 \times 10^5)$

14.  $(4.4 \times 10^6)(1.6 \times 10^{-9})$

15.  $(8.8 \times 10^8)(3.5 \times 10^{-13})$

16.  $(1.35 \times 10^8)(7.2 \times 10^{-4})$

17.  $(2.2 \times 10^{-3})^2$

18.  $(3.4 \times 10^2)^2$

**Evaluate each quotient. Express the results in both scientific notation and standard form.**

19.  $\frac{(9.2 \times 10^{-8})}{(2 \times 10^{-6})}$

20.  $\frac{(4.8 \times 10^4)}{(3 \times 10^{-5})}$

21.  $\frac{(1.161 \times 10^{-9})}{(4.3 \times 10^{-6})}$

22.  $\frac{(4.625 \times 10^{10})}{(1.25 \times 10^4)}$

23.  $\frac{(2.376 \times 10^{-4})}{(7.2 \times 10^{-8})}$

24.  $\frac{(8.74 \times 10^{-3})}{(1.9 \times 10^5)}$