

# Lesson 7 Homework Practice

## *Compute with Scientific Notation*

Evaluate each expression. Express the result in scientific notation.

1.  $(7.3 \times 10^8)(2.4 \times 10^3)$

2.  $\frac{4.62 \times 10^7}{1.2 \times 10^4}$

3.  $\frac{8.64 \times 10^6}{4.32 \times 10^3}$

4.  $(5.32 \times 10^8) - (4.6 \times 10^6)$

5.  $(9.67 \times 10^6) + (3.45 \times 10^5)$

6.  $(4.5 \times 10^3)(1.6 \times 10^5)$

7.  $(2.82 \times 10^9) + (6.3 \times 10^7)$

8.  $(3.64 \times 10^6) - (2.18 \times 10^4)$

9.  $\frac{2.144 \times 10^7}{3.2 \times 10^4}$

10.  $(7.2 \times 10^7)(1.82 \times 10^2)$

11.  $(9.8 \times 10^5) - (6.7 \times 10^3)$

12.  $(6.98 \times 10^5) + (1.65 \times 10^7)$

13.  $(2.46 \times 10^7)(1.78 \times 10^2)$

14.  $\frac{3.936 \times 10^5}{2.4 \times 10^2}$

15. **MARS** The diameter of Mars is about  $6.8 \times 10^3$  kilometers. The diameter of Earth is about  $1.2763 \times 10^4$  kilometers. About how much greater is Earth's diameter than the diameter of Mars?

16. **WAREHOUSE** A factory builds a new warehouse that is approximately  $1.28 \times 10^5$  square feet. Later, they add on  $1.13 \times 10^3$  more square feet for offices. Use scientific notation to write the total size of the new building.