NAME Teacher Key DATE _____ PERIOD ____

2-10 Skills Practice

Scientific Notation

Write each number in standard form.

1. $6.7 \times 10^1 = 67$

2. $6.1 \times 10^4 = 61{,}000$
   6.1000

3. $1.6 \times 10^3 = 1{,}600$
   1.600

4. $3.46 \times 10^2 = 346$
   3.46

5. $2.91 \times 10^5 = 291{,}000$
   2.91000

6. $8.651 \times 10^7 = 86{,}510{,}000$
   8651000

7. $3.35 \times 10^{-1} = .335$

8. $7.3 \times 10^{-6} = .0000073$
   .000007 3

9. 1.49×10^{-7} .0000000149
   .0000001.49

10. $4.0027 \times 10^{-4} = .00040027$
    0004.0027

11. $5.2277 \times 10^{-3} = .0052277$
    .005.2277

12. $8.50284 \times 10^{-2} = .0850284$
    .08.50284

Write each number in scientific notation.

13. 34
    3.4×10^1

14. 273
    2.73×10^2

15. 79,700
    7.97×10^4

16. 6,590
    6.59×10^3

17. 4,733,800
    4.7338×10^6

18. 2,204,000,000
    2.204×10^9

19. 0.00916
    9.16×10^{-3}

20. 0.29
    2.9×10^{-1}

21. 0.00000571
    5.71×10^{-6}

22. 0.0008331
    8.331×10^{-4}

23. 0.0121
    1.21×10^{-2}

24. 0.00000018
    1.8×10^{-7}

NAME _____ DATE _____ PERIOD _____

2-10 Word Problem Practice

Scientific Notation

1. MEASUREMENT There are about 25.4 millimeters in one inch. Write this number in scientific notation.

2.54×10^{1}

2. POPULATION In the year 2000, the population of Rahway, New Jersey, was 26,500. Write this number in scientific notation.

2.65×10^{4}

3. MEASUREMENT There are 5,280 feet in one mile. Write this number in scientific notation.

5.28×10^{3}

4. PHYSICS The speed of light is about 1.86×10^{5} miles per second. Write this number in standard notation.

1,86000

186,000

5. COMPUTERS A CD can store about 650,000,000 bytes of data. Write this number in scientific notation.

6.5×10^{8}

6. SPACE The diameter of the Sun is about 1.39×10^{9} meters. Write this number in standard notation.

1,390000000

1,390,000,000

7. ECONOMICS The U.S. Gross Domestic Product in the year 2004 was 1.17×10^{13} dollars. Write this number in standard notation.

1,17000000000000

11,700,000,000,000

8. MASS The mass of planet Earth is about 5.98×10^{24} kilograms. Write this number in standard notation.

5,980000000000000000000000

5,980,000,000,000,000,000,000,000

Lesson 2-10