

**2-10****Skills Practice****Scientific Notation**

Write each number in standard form.

1.  $6.7 \times 10^1$

2.  $6.1 \times 10^4$

3.  $1.6 \times 10^3$

4.  $3.46 \times 10^2$

5.  $2.91 \times 10^5$

6.  $8.651 \times 10^7$

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

8.  $7.3 \times 10^{-6}$

9.  $1.49 \times 10^{-7}$

10.  $4.0027 \times 10^{-4}$

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

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

Write each number in scientific notation.

13. 34

14. 273

15. 79,700

16. 6,590

17. 4,733,800

18. 2,204,000,000

19. 0.00916

20. 0.29

21. 0.00000571

22. 0.0008331

23. 0.0121

24. 0.00000018

**2-10****Word Problem Practice****Scientific Notation**

<p><b>1. MEASUREMENT</b> There are about 25.4 millimeters in one inch. Write this number in scientific notation.</p>	<p><b>2. POPULATION</b> In the year 2000, the population of Rahway, New Jersey, was 26,500. Write this number in scientific notation.</p>
<p><b>3. MEASUREMENT</b> There are 5,280 feet in one mile. Write this number in scientific notation.</p>	<p><b>4. PHYSICS</b> The speed of light is about <math>1.86 \times 10^5</math> miles per second. Write this number in standard notation.</p>
<p><b>5. COMPUTERS</b> A CD can store about 650,000,000 bytes of data. Write this number in scientific notation.</p>	<p><b>6. SPACE</b> The diameter of the Sun is about <math>1.39 \times 10^9</math> meters. Write this number in standard notation.</p>
<p><b>7. ECONOMICS</b> The U.S. Gross Domestic Product in the year 2004 was <math>1.17 \times 10^{13}</math> dollars. Write this number in standard notation.</p>	<p><b>8. MASS</b> The mass of planet Earth is about <math>5.98 \times 10^{24}</math> kilograms. Write this number in standard notation.</p>