

## 7-2

## Practice

Form G

## Scientific Notation

Is the number written in scientific notation? If not, explain.

1.  $32.1 \times 10^5$

2.  $5.6 \times 10^{12}$

3.  $4.6 \times 10^{-5}$

4.  $0.7 \times 10^{34}$

Write each number in scientific notation.

5. 3,200,000,000,000

6. 0.00000802

7. 70,030,000

8. 8.7 billion

Write each number in standard notation.

9.  $3.37 \times 10^{12}$

10.  $3.060 \times 10^7$

11.  $4.2 \times 10^{-6}$

12.  $4.56 \times 10^0$

Simplify. Write each answer using scientific notation.

13.  $5(3.2 \times 10^{-4})$

14.  $0.7(8.54 \times 10^4)$

15.  $87(6.4 \times 10^5)$

16.  $0.03(6 \times 10^{-7})$

17. **Writing** Scientific notation is often used for working with very small or very large numbers. Describe two situations where using scientific notation might be appropriate.

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18. **Reasoning** How does a number in scientific notation change when you multiply it by 100?

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19. Country A has a population of  $8.7 \times 10^9$ . You hear that country B has twice as many people as country A and country C has twice as many people as country B. How many people live in country C?