Name _____ Date _____ Class _____

Practice B
Scientific Notation

Multiply.

1. $6 \cdot 10^3$ 2. $22 \cdot 10^1$ 3. $8 \cdot 10^2$ 4. $18 \cdot 10^0$

_____   _____   _____   _____

5. $70 \cdot 10^2$ 6. $25 \cdot 10^3$ 7. $3 \cdot 10^4$ 8. $180 \cdot 10^3$

_____   _____   _____   _____

Write each number in scientific notation.

9. 34,000   10. 7,700   11. 2,100,000   12. 404,000

_____   _____   _____   _____

13. 21,000,000   14. 612.00   15. 3,001,000   16. $62.13 \cdot 10^4$

_____   _____   _____   _____

Write the missing number or numbers.

17. $1.23 \times 10^? = 12,300$ 18. $8.3 \times 10^5 = ?$ 19. $112,000,000 = ? \times 10^8$

_____   _____   _____

20. $410,000 = ? \times 10^5$ 21. $7.7 \times 10^7 = ?$ 22. $2,950,000 = 2.95 \times 10^?$

_____   _____   _____

23. Lake Superior covers an area of about 31,700 square miles.
    Write this number in scientific notation.

_____

24. Mars is about $1.42 \cdot 10^8$ miles from the sun. Write this number
    in standard form.

_____

25. In 2005, the population of China was about $1.306 \cdot 10^9$.
    What was the population of China written in standard form?

_____

26. A scientist estimates there are 4,800,000 bacteria in a test tube.
    How does she record the number using scientific notation?

_____

     Holt McDougal Mathematics