

LESSON
7-2

Practice B
Powers of 10 and Scientific Notation

Find the value of each power of 10.

1. 10^{-3} _____ 2. 10^5 _____ 3. 10^{-4} _____
 4. 10^0 _____ 5. 10^7 _____ 6. 10^1 _____

Write each number as a power of 10.

7. 1,000,000 _____ 8. 0.001 _____ 9. 0.000001 _____
 10. 0.00001 _____ 11. 0.1 _____ 12. 0.00000001 _____

Find the value of each expression.

13. 5.02×10^3 _____ 14. 603×10^{-4} _____
 15. 52.8×10^6 _____ 16. 5.41×10^{-3} _____
 17. 0.03×10^{-2} _____ 18. 22.81×10^{-6} _____

Write each number in scientific notation.

19. 4500 _____ 20. 6,560,000 _____
 21. 0.00002 _____ 22. 0.00203 _____

Order the list of numbers from least to greatest.

23. 3×10^2 ; 4.54×10^{-3} ; 6.75×10^2 ; 8.2×10^{-4} ; 9×10^{-1} ; 6.18×10^{-4}
- _____

24. 5.4×10^{-3} ; 6.2×10^{-1} ; 7.25×10^3 ; 6.87×10^3 ; 2.24×10^{-1} ; 6.6×10^{-3}
- _____

25. In 1970, the number of televisions sold in the United States was about 1.2×10^7 . Write this number in standard form. _____

26. In 1950, about 3,880,000 households in the United States had televisions. Write this number in scientific notation. _____

27. Find the volume of the cube shown at right. Write the answer in both standard form and in scientific notation.
- _____
- _____

