

Multiplying and Dividing by Powers of Ten

P 2-10

Find each product or quotient.

1. $72.1 \times 10^3 =$ _____

2. $450 \times 10^{-4} =$ _____

3. $3.103 \div 10^3 =$ _____

4. $167.4 \div 10^{-2} =$ _____

5. $0.012 \times 10^{-2} =$ _____

6. $0.012 \div 10^2 =$ _____

7. $0.301 \div 10^{-3} =$ _____

8. $8.235 \times 10^4 =$ _____

9. **Reasoning** Explain in your own words why 10^4 is greater than 10^{-4} .

10. **Number Sense** Write 10, 100, and 1,000 as powers of ten. Do the same for 0.1, 0.01, and 0.001.

11. Write the weight of an ant in standard form.

12. Write the weight of an elephant in standard form.

Weight (in pounds)

Ant	2×10^{-5}
Hummingbird	2×10^{-2}
Elephant	16×10^3

13. Write the weight of a hummingbird in standard form.

Test Prep

14. Which is the quotient of $10.06 \div 10^{-4}$?

A. 0.001006

B. 0.01006

C. 1,006

D. 100,600

15. **Writing in Math** Explain how you would write one billion as a power of ten.
