

EXERCISES

 For more practice, see *Extra Practice*.

A Practice by Example

Use mental math to find each product.

Example 1
(page 40)

1. 6.2×10

2. $100 \cdot 2.57$

3. $10(9.25)$

4. 100×1.6

5. $1,000(4.3)$

6. $1,000 \cdot 0.89$

Example 2
(page 41)

Use mental math to find each quotient.

7. $122.9 \div 10$

8. $1.37 \div 10$

9. $161.7 \div 100$

10. $1.5 \div 100$

11. $2,048.8 \div 1,000$

12. $8.17 \div 1,000$

B Apply Your Skills



Use $<$, $=$, or $>$ to complete each statement.

13. $0.92 \cdot 100$ \square $9.2 \cdot 1,000$

14. $2.5(0.56 \cdot 4)$ \square $0.56 \cdot 10$

15. $0.99 \div 100$ \square $9.9 \div 10$

16. $88 \div 100$ \square $8.8 \div 100$

-  **17. Dolphins** Dolphins swim about 27.5 miles per hour. A person can swim about 0.1 times as fast as a dolphin. How fast can a person swim?
-  **18. Packaging** Pencils come in packages of 10 each. Packages are packed 20 to a box, and boxes are packed 500 to a carton. How many pencils are in a carton?

True or False? If false, give an example to support your answer.

19. Dividing by 100 is the same as multiplying by 0.1.
20. Multiplying by 0.001 is the same as dividing by 1,000.
21. Changing the order of the factors does not change the product.
22. Any decimal multiplied by 1 is equal to the original decimal.
23. **Writing in Math** Use mental math to find $0.8 \div 100$. Explain your method.
24. Multiply.
a. 572×0.1 b. 572×0.01 c. 572×0.001 d. 572×0.0001
e. **Patterns** What pattern do you notice in your answers to parts (a)–(d)?

C Challenge

25. Find each answer.
a. 52×10 b. $52 \div 10$ c. 52×0.1 d. $52 \div 0.1$
e. **Reasoning** Explain how you solved part (d).
f. Complete: Dividing by 0.1 is the same as multiplying by \square .
26. **Stretch Your Thinking** Six days after the day before yesterday is Monday. What day is today?



Test Prep

Multiple Choice

27. Which quotient is greatest?
A. $8.31 \div 10$ B. $83.1 \div 100$ C. $83.1 \div 10$ D. $831 \div 1,000$
28. Which value is NOT greater than 1?
F. 0.035×10 G. 9.8×10 H. $67.3 \div 10$ I. $452 \div 10$
29. Ten mice weigh 106.7 grams. About how much does one mouse weigh?
A. 1,067 grams B. 106.7 grams C. 10.67 grams D. 1.067 grams
30. Replacing the box with which value will make $\square \div 10 > 7.19 \times 10$ true?
F. 0.72 G. 7.2 H. 72 I. 720



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Mixed Review

Lesson 1-4

Estimate using rounding or compatible numbers.

31. $90.88 \div 11.2$ 32. 6.7×4.1 33. 26.50×4
34. $37.6 \div 3.8$ 35. 86.2×43.9 36. $15.2 \div 8.3$