

Review

Chapter 2

Multiply Whole Numbers

Vocabulary Check



Match each word to its definition. Write your answers on the lines provided.

1. **compatible numbers** _____
 2. **product** _____
 3. **power of 10** _____
 4. **factor** _____
 5. **prime factorization** _____
 6. **Distributive Property** _____
 7. **exponent** _____
 8. **base** _____
 9. **power** _____
- A. This is a number obtained by raising a base to an exponent.
 - B. This property states that to multiply a number by a sum, you can multiply each addend by the number and add the products.
 - C. This is a number that divides into a whole number evenly. It is also a number that is multiplied by another number.
 - D. This is a way of expressing a composite number as a product of its prime factors.
 - E. This is a number like 10, 100, 1,000, and so on. It is the result of using only 10 as a factor.
 - F. These are numbers that are easy to multiply mentally.
 - G. This is the answer to a multiplication problem.
 - H. In a power, this number represents the number of times the base is used as a factor.
 - I. In a power, this is the number used as the repeated factor.

Concept Check

Find the prime factorization of each number.

10. $12 =$ _____

11. $42 =$ _____

Write each product using an exponent.

12. $10 \times 10 =$ _____

13. $5 \times 5 \times 5 \times 5 =$ _____

Find each product mentally.

14. $73 \times 10^2 =$ _____

15. $60 \times 40 =$ _____

Estimate. Then multiply. Use your estimate to check your answer.

16.
$$\begin{array}{r} 72 \\ \times 36 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 23 \\ \times 84 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 321 \\ \times 64 \\ \hline \end{array}$$

Find each product mentally using the Distributive Property.
Show the steps that you used.

19. $8 \times 71 =$ _____

20. $6 \times 83 =$ _____

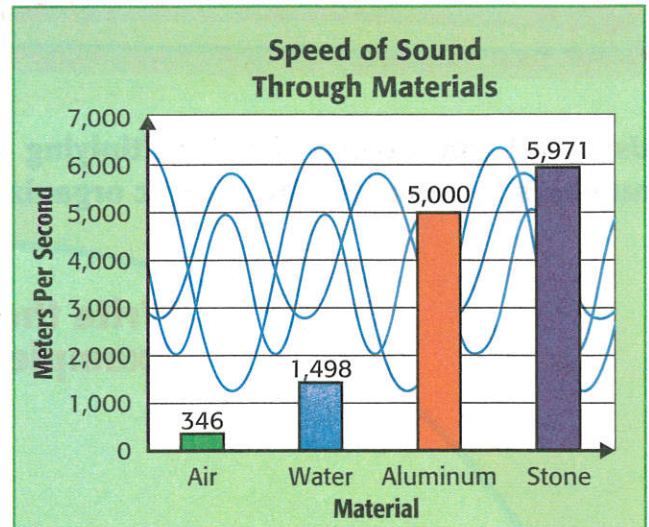
Name _____



Problem Solving

For Exercises 21–23, use the following information. Then estimate to find the distance sound travels through each material in each given time.

Sound travels through different materials at different speeds. For example, the graph shows that in one second, sound travels 5,971 meters through stone. However, it travels only 346 meters through air in one second.



21. air, 20 seconds

22. stone, 12 seconds

23. Estimate how much farther sound travels through stone in 17 seconds than through aluminum in the same time.

24. Sylvia is saving to buy a new terrarium for her iguana. She saves \$2 the first week, \$4 the second week, \$8 the third week, and so on. How much total money will she save in 5 weeks? Solve by completing the table.

Week	1	2	3	4	5
Amount Saved (\$)	2	4	8		



Test Practice

25. Colin bought 7 flats of flowers. Each flat contains 24 flowers. How many flowers did he buy?

- (A) 140 flowers (C) 168 flowers
(B) 154 flowers (D) 200 flowers