# SCHOOL-to-HOME CONNECTIONS

Chapter 2

# Multiplication and Division

## Dear Family,

In this chapter, your child will learn about multiplication and division of whole numbers. Skills your child will practice include:

- multiplying by a 1-digit or 2-digit number
- finding quotient and remainder
- dividing by a 1-digit number
- identifying factors and multiples
- identifying prime and composite numbers
- solving real-word problems

### Math Practice

Estimating products and quotients is an important mental mathematics skill. At the end of this chapter, you may want to carry out these activities with your child. These activities will help to strengthen your child's understanding of multiplication and division.

### Activity 1

- Have your child pour a mug of water into a measuring cup. Record the volume of water in milliliters.
- Ask your child to find the total amount of water in 6 of these mugs.
- Have your child share the total amount of water equally with 2 family members.
- Have your child use division to find the amount of water each family member will receive.

### Math Talk

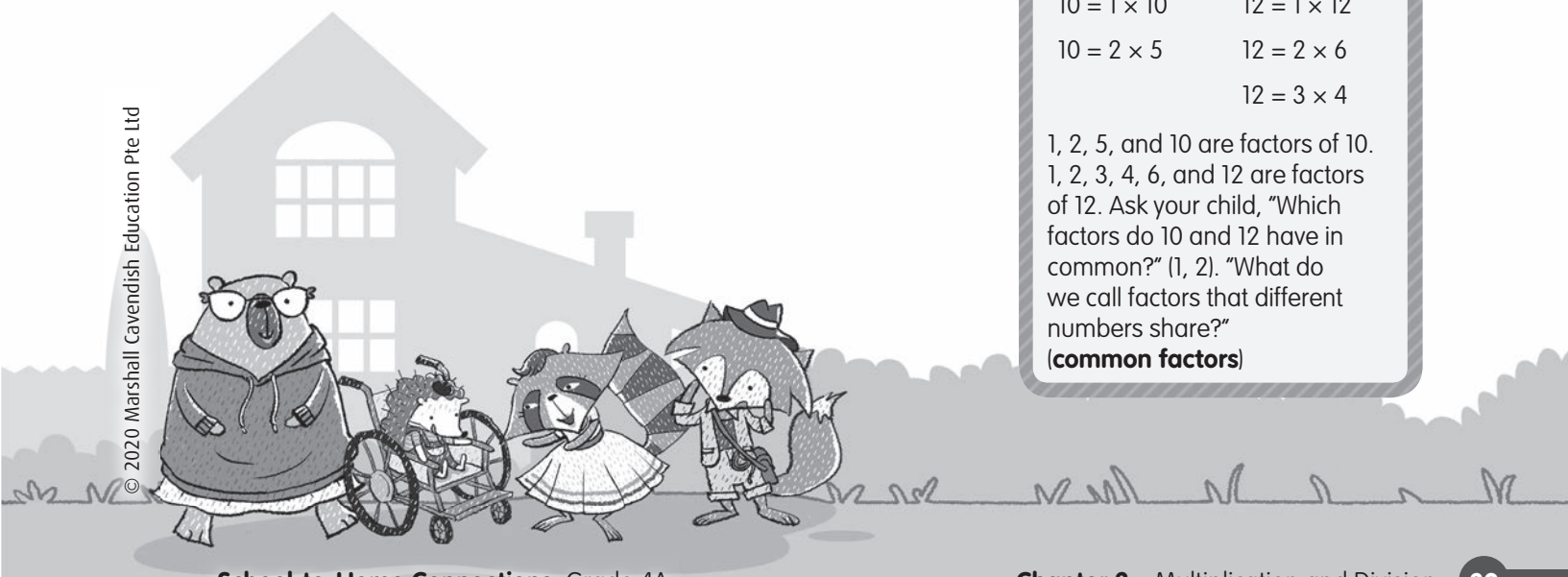
Help your child understand that a **product** is the answer to a multiplication problem, and a **quotient** is the answer to a division problem.
$6 \times 2 = 12$
12 is the product of 6 and 2.
$100 \div 2 = 50$
50 is the quotient when 100 is divided by 2.

Explain to your child that a **remainder** is the number left over in a division problem.
$11 \div 5 = 2$ R 1
When 11 is divided by 5, the remainder is 1.

Next, help your child understand that **factors** of a number are the numbers that are multiplied together to make that number.

$10 = 1 \times 10$ $12 = 1 \times 12$
$10 = 2 \times 5$ $12 = 2 \times 6$
$12 = 3 \times 4$

1, 2, 5, and 10 are factors of 10. 1, 2, 3, 4, 6, and 12 are factors of 12. Ask your child, "Which factors do 10 and 12 have in common?" (1, 2). "What do we call factors that different numbers share?" (**common factors**)



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## Activity 2

- Have your child solve the following word problem:
  The total cost of a washing machine and a laptop is $1,800.
  The washing machine costs twice as much as the laptop.
  The cost of a refrigerator is $500 less than the cost of the washing machine.
  How much does the refrigerator cost?
- Guide your child with the following:
  - Understand the problem. (How much do the washing machine and laptop cost altogether? Which item costs more?)
  - Think of a plan to solve it. (Draw a model.)
  - Carry out the plan to solve it. (First, find the cost of the washing machine. Then, find the cost of the refrigerator.)
  - Check the answer. (Use estimation to check if the answers are reasonable.)




Next, help your child understand that a **multiple** of a number is the product of that number and any other number. Use the following tables to help your child name multiples of 4 and 9.

| | |
|---|---|
| 1 × 4 = 4 | 1 × 9 = 9 |
| 2 × 4 = 8 | 2 × 9 = 18 |
| 3 × 4 = 12 | 3 × 9 = 27 |
| 4 × 4 = 16 | 4 × 9 = 36 |
| 5 × 4 = 20 | 5 × 9 = 45 |

Then, ask your child to find a **common multiple** of the two numbers 4 and 9. (36)

Help your child understand that a **prime number** has only 2 different factors, 1 and the number itself, and a **composite number** has more than 2 different factors. For example, 5 is a prime number and 12 is a composite number.




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