Name_____ Date_____ Period_____

LESSON 9-1 · SESSION 2 · PREREQUISITE PRACTICE A · SKILL 1 OF 2

Multiply by One-Digit Numbers

Builds on Grade 4 · 4.NBT.B.5

TODAY'S LESSON	You will fill a table for 18 cartons in each crate, like 18 × 5 for 5 crates.
YOU NEED TO	Multiply a two-digit number by a one-digit number, like 18 × 5. **You will use it in Practice Form A, problems 3 and 4.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Split** the two-digit number into tens and ones.
2. **Multiply** each part by the one-digit number.
3. **Add** the two products.

WATCH ME

the steps in action

35 × 3

Step 1 35 = 30 + 5

Step 2 30 × 3 = 90. 5 × 3 = 15.

Step 3 90 + 15 = 105

Answer **105**

TRY IT WITH HELP

fill in each step

1. 18 × 5

Step 1 18 = 10 + _____

Step 2 10 × 5 = _____. 8 × 5 = _____.

Step 3 50 + 40 = _____

2. 25 × 6

Step 1 25 = _____ + 5

Step 2 20 × 6 = _____. 5 × 6 = _____.

Step 3 120 + 30 = _____

YOUR TURN

use the steps on your own

3. Multiply. Use the same three steps.

a. 24 × 3 = _____ **b.** 45 × 4 = _____ **c.** 28 × 5 = _____

d. 16 × 7 = _____ **e.** 36 × 4 = _____ **f.** 30 × 8 = _____

Find the Rule in a Table

Builds on Grade 4 · 4.OA.C.5

TODAY'S LESSON	You will find the rule for x: 1, 2, 3 and y: 12, 24, 36, then find y when $x = 7$.
YOU NEED TO	Find the rule that turns each x into y, like "multiply by 12." **You will use it in Practice Form A, problem 7.**

STEPS TO FOLLOW

use these same steps on every problem

1. Look at the **first** pair. Try add and try multiply.
2. **Test** each rule on the other pairs.
3. **Write** the rule that works for every pair.

WATCH ME

the steps in action

x: 1, 2, 3 y: 7, 14, 21

Step 1 1 to 7: add 6, or multiply by 7.

Step 2 Add 6: 2 + 6 = 8, not 14. Multiply by 7: 2 × 7 = 14, 3 × 7 = 21.

Step 3 The rule is multiply by 7.

Answer multiply by 7

TRY IT WITH HELP

fill in each step

4. x: 1, 2, 3 y: 15, 30, 45

Step 1 1 to 15: add _____, or multiply by _____.

Step 2 Multiply by 15: 2 × 15 = _____, 3 × 15 = _____.

Step 3 The rule is _____.

5. x: 1, 2, 3 y: 7, 8, 9

Step 1 1 to 7: add _____, or multiply by _____.

Step 2 Add 6: 2 + 6 = _____, 3 + 6 = _____.

Step 3 The rule is _____.

YOUR TURN

use the steps on your own

6. Write the rule: "multiply by ___" or "add ___."

a. x: 1, 2, 3 y: 11, 22, 33 _____

b. x: 1, 2, 3 y: 25, 50, 75 _____

c. x: 3, 4, 5 y: 13, 14, 15 _____

d. x: 1, 2, 3 y: 9, 18, 27 _____

e. x: 2, 3, 4 y: 6, 7, 8 _____

f. x: 1, 2, 3 y: 30, 60, 90 _____

READY CHECK

a problem like the one in today's lesson

7. A table shows x: 1, 2, 3 and y: 8, 16, 24. What is y when $x = 6$?

A 14 **B** 32 **C** 48 **D** 30

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #____