Name_____ Date_____ Period_____

LESSON 6-3 · SESSION 2 · PREREQUISITE PRACTICE A · SKILL 1 OF 2

Multiply Multi-Digit Numbers

Builds on Grade 4 · 4.NBT.B.5

TODAY'S LESSON	You will find $5^4 = 5 \times 5 \times 5 \times 5$. The products grow fast: 25, 125, 625.
YOU NEED TO	Multiply a 2- or 3-digit number by a 1-digit number, like 125 × 5. **You will use it in Practice Form A, problems 3 and 4.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Break** the big number into hundreds, tens and ones.
2. **Multiply** each part by the 1-digit number.
3. **Add** the parts.

WATCH ME

the steps in action

Find 125 × 5.

Step 1 125 = 100 + 20 + 5.

Step 2 100 × 5 = 500, 20 × 5 = 100, 5 × 5 = 25.

Step 3 500 + 100 + 25 = 625.

Answer 625

TRY IT WITH HELP

fill in each step

1. Find 27 × 3.

Step 1 27 = 20 + _____

Step 2 20 × 3 = _____ and 7 × 3 = _____

Step 3 60 + 21 = _____

2. Find 64 × 4.

Step 1 64 = 60 + _____

Step 2 60 × 4 = _____ and 4 × 4 = _____

Step 3 _____ + 16 = _____

YOUR TURN

use the steps on your own

3. Multiply.

a. 25 × 5 = _____ **b.** 32 × 2 = _____ **c.** 49 × 7 = _____

d. 81 × 3 = _____ **e.** 36 × 6 = _____ **f.** 128 × 2 = _____

Extend Multiplying Patterns

Builds on Grade 4 · 4.OA.C.5

TODAY'S LESSON	You will complete a table of powers of 2. Each value is 2 times the one before.
YOU NEED TO	Continue a pattern that multiplies by the same number, like 1, 3, 9, 27. **You will use it in Practice Form A, problems 2 and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find the **rule**: what is each number multiplied by?
2. **Multiply** the last number by the rule.
3. **Repeat** for the next blank.

WATCH ME

the steps in action

Continue: 1, 2, 4, 8, ___, _____

Step 1 The rule is × 2.

Step 2 8 × 2 = 16.

Step 3 16 × 2 = 32.

Answer **16, 32**

TRY IT WITH HELP

fill in each step

4. Continue: 1, 3, 9, ___, _____

Step 1 The rule is × _____

Step 2 9 × 3 = _____

Step 3 27 × 3 = _____

5. Continue: 1, 10, 100, ___, _____

Step 1 The rule is × _____

Step 2 100 × 10 = _____

Step 3 1,000 × 10 = _____

YOUR TURN

use the steps on your own

6. Write the next two numbers.

a. 1, 5, 25, … _____

b. 2, 4, 8, … _____

c. 1, 4, 16, … _____

d. 3, 6, 12, … _____

READY CHECK

a problem like the one in today's lesson

7. A table of powers of 2 shows 2, 4, 8, 16. What comes next?

A 18 **B** 24 **C** 32 **D** 64

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