Name_____ Date_____ Period_____

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

Repeated Addition vs. Multiplication

Builds on Grade 3 · 3.OA.A.1

TODAY'S LESSON	You will write 5 × 5 × 5 × 5 as a power. It is not the same as 5 + 5 + 5 + 5.
YOU NEED TO	Find the value of a repeated sum and a repeated product, like 3 + 3 + 3 and 3 × 3 × 3. **You will use it in Practice Form A, problems 3 and 5.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Count** how many times the number repeats.
2. For repeated **+**, multiply the number by the count.
3. For repeated **×**, multiply the number by itself that many times.

WATCH ME

the steps in action

Find 3 + 3 + 3 + 3 and 3 × 3 × 3 × 3.

Step 1 3 repeats 4 times in each.

Step 2 3 + 3 + 3 + 3 = 3 × 4 = 12.

Step 3 3 × 3 × 3 × 3 = 9 × 3 × 3 = 81.

Answer **12 and 81. They are not the same.**

TRY IT WITH HELP

fill in each step

1. Find 2 + 2 + 2 and 2 × 2 × 2.

Step 1 2 repeats _____ times.

Step 2 2 + 2 + 2 = 2 × 3 = _____

Step 3 2 × 2 × 2 = 4 × 2 = _____

2. Find 5 + 5 + 5 and 5 × 5 × 5.

Step 1 5 repeats _____ times.

Step 2 5 + 5 + 5 = 5 × 3 = _____

Step 3 5 × 5 × 5 = 25 × 5 = _____

YOUR TURN

use the steps on your own

3. Find each value.

a. 4 + 4 + 4 = _____

b. 4 × 4 × 4 = _____

c. 10 + 10 = _____

d. 10 × 10 = _____

e. 3 + 3 + 3 = _____

f. 3 × 3 × 3 = _____

Name Factors and Products

Builds on Grade 4 · 4.OA.B.4

TODAY'S LESSON	You will write 1/2 × 1/2 × 1/2 as a power. It has 3 factors of 1/2.
YOU NEED TO	Name and count the factors in a product like 7 × 7 × 7. **You will use it in Practice Form A, problems 6 and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. The numbers being multiplied are the **factors**.
2. **Count** the factors.
3. **Multiply** to find the product.

WATCH ME

the steps in action

Name the factors in 6 × 6 × 6. Find the product.

Step 1 The factors are 6, 6 and 6.

Step 2 There are 3 factors.

Step 3 6 × 6 × 6 = 36 × 6 = 216.

Answer **3 factors of 6. The product is 216.**

TRY IT WITH HELP

fill in each step

4. Name the factors in 4 × 4. Find the product.

Step 1 The factors are _____ and _____.

Step 2 There are _____ factors.

Step 3 4 × 4 = _____

5. Name the factors in 1/2 × 1/2 × 1/2. Find the product.

Step 1 The factors are _____, _____ and _____.

Step 2 There are _____ factors.

Step 3 1/2 × 1/2 × 1/2 = _____

YOUR TURN

use the steps on your own

6. How many factors? Find the product.

a. 2 × 2 × 2 × 2 _____

b. 10 × 10 × 10 _____

c. 7 × 7 _____

d. 3 × 3 × 3 _____

READY CHECK

a problem like the one in today's lesson

7. Rafi wrote 8 × 8 × 8 as 8^8. How many factors of 8 are in 8 × 8 × 8?

A 8 **B** 3 **C** 24 **D** 512

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