Name_____ Date_____ Period_____

LESSON 6-4 · SESSION 1 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Write Powers for Squares and Cubes

Builds on Lesson 6-3 · 6.EE.A.1

TODAY'S LESSON	A square garden with 15 plants on each side has 15^2 plants.
YOU NEED TO	Write a square with exponent 2 and a cube with exponent 3, like 6^3. **You will use it in Practice Form A, problems 4 and 6.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find the **side** length. That is the base.
2. Square: exponent **2**. Cube: exponent 3.
3. **Evaluate**. Multiply the base that many times.

WATCH ME

the steps in action

A cube has edges of 5 units. Write the number of unit cubes as a power. Evaluate.

Step 1 The base is 5.

Step 2 A cube uses exponent 3: 5^3.

Step 3 $5 \times 5 \times 5 = 125$.

Answer $\mathbf{5^3 = 125}$

TRY IT WITH HELP

fill in each step

1. A square has 9 tiles on each side. Write the tiles as a power. Evaluate.

Step 1 The base is _____.

Step 2 A square uses exponent _____.

Step 3 $9 \times 9 =$ _____

2. A cube has edges of 4 units. Write the unit cubes as a power. Evaluate.

Step 1 The base is _____.

Step 2 A cube uses exponent _____.

Step 3 $4 \times 4 \times 4 =$ _____

YOUR TURN

use the steps on your own

3. Write a power. Then evaluate.

a. square, side 7 _____

b. cube, edge 2 _____

c. square, side 10 _____

d. cube, edge 3 _____

Write Expressions with Parentheses

Builds on Grade 5 · 5.OA.A.2

TODAY'S LESSON	You will write "the sum of 5 and 9, tripled" as 3 × (5 + 9).
YOU NEED TO	Use parentheses when you add first, then multiply, like 2 × (8 + 7). **You will use it in Practice Form A, problem 1.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find the part to do **first**.
2. Put that part in **parentheses**.
3. **Write** the other operation outside.

WATCH ME

the steps in action

Write "the sum of 2 and 4, doubled."

Step 1 Add first: 2 + 4.

Step 2 Put it in parentheses: (2 + 4).

Step 3 Doubled means × 2: 2 × (2 + 4).

Answer **2 × (2 + 4)**

TRY IT WITH HELP

fill in each step

4. Write "the sum of 8 and 7, times 2."

Step 1 First: 8 _____ 7

Step 2 Put it in parentheses: (_____)

Step 3 The expression is 2 × _____.

5. Write "the difference of 10 and 4, times 5."

Step 1 First: 10 _____ 4

Step 2 Put it in parentheses: (_____)

Step 3 The expression is 5 × _____.

YOUR TURN

use the steps on your own

6. Write an expression with parentheses.

a. the sum of 3 and 6, times 4 _____

b. the difference of 9 and 2, tripled _____

c. the sum of 1 and 5, doubled _____

d. the sum of 7 and 3, divided by 2 _____

READY CHECK

a problem like the one in today's lesson

7. Which expression means "the sum of 4 and 6, tripled"?

A 3 × 4 + 6 **B** 3 × (4 + 6) **C** 4 + 6 × 3 **D** 3 + 4 + 6

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