Name_____ Date_____ Period_____

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

Write Numerical Expressions

Builds on Lesson 6-4 Session 1 · 6.EE.A.2

TODAY'S LESSON	Today you evaluate 4 + 2 × 6 and (4 + 2) × 6, the kind of expressions you wrote in Session 1.
YOU NEED TO	Write one expression for a story, like 3 × 8 + 5 for 3 shirts at $8 and a $5 hat. **You will use it in Practice Form A, problem 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find each **group**: number × price.
2. Find any **one-time** amount.
3. **Join** the parts with + or −.

WATCH ME

the steps in action

3 shirts cost $8 each. A hat costs $5. Write the total cost.

Step 1 Group: 3 × 8.

Step 2 One-time amount: 5.

Step 3 3 × 8 + 5.

Answer **3 × 8 + 5 = 29 dollars**

TRY IT WITH HELP

fill in each step

1. 4 pens cost $2 each. A notebook costs $6. Write the total cost.

Step 1 Group: _____ × _____

Step 2 One-time amount: _____

Step 3 Expression: _____

2. 5 cards cost $3 each. You pay with a $20 bill. Write the change.

Step 1 Group: _____ × _____

Step 2 One-time amount: _____

Step 3 Expression: 20 _____ 5 × 3

YOUR TURN

use the steps on your own

3. Write an expression. Then evaluate.

a. 6 apples at $1 each and a $4 bag _____

b. 2 hats at $7 each and a $3 pin _____

c. 3 books at $5 each, paid with $20 _____

d. 4 tickets at $9 each and a $6 program _____

Evaluate Powers

Builds on Lesson 6-3 Session 2 · 6.EE.A.1

TODAY'S LESSON	In $8 + 4 \times 3^2 - 10$ you must find $3^2 = 9$ before you multiply.
YOU NEED TO	Find the value of a power, like $4^2 = 4 \times 4 = 16$. **You will use it in Practice Form A, problems 2 and 5.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find the **base** and the exponent.
2. **Write** the base as a factor that many times.
3. **Multiply** left to right.

WATCH ME

the steps in action

Evaluate 2^4.

Step 1 Base 2, exponent 4.

Step 2 $2 \times 2 \times 2 \times 2$.

Step 3 $4 \times 2 \times 2 = 8 \times 2 = 16$.

Answer 16

TRY IT WITH HELP

fill in each step

4. Evaluate 3^2.

Step 1 Base _____, exponent _____

Step 2 _____ × _____

Step 3 3 × 3 = _____

5. Evaluate 4^3.

Step 1 Base _____, exponent _____

Step 2 4 × 4 × _____

Step 3 16 × 4 = _____

YOUR TURN

use the steps on your own

6. Evaluate each power.

a. 5^2 = _____ **b.** 2^3 = _____ **c.** 10^2 = _____

d. 6^2 = _____ **e.** 3^3 = _____ **f.** 1^5 = _____

READY CHECK

a problem like the one in today's lesson

7. Evaluate $2 + 3 \times 4^2$.

A 80 **B** 50 **C** 26 **D** 146

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