Name_____ Date_____ Period_____

LESSON 6-5 · SESSION 2 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Write Algebraic Expressions

Builds on Lesson 6-5 Session 1 · 6.EE.A.2a

TODAY'S LESSON	A garage charges $4h + 5$ dollars: \$4 for each hour h, plus a \$5 fee.
YOU NEED TO	Write an expression with a letter, like $4h + 5$ for \$4 an hour plus \$5. **You will use it in Practice Form A, problems 2 and 3.**

STEPS TO FOLLOW

use these same steps on every problem

1. The amount that **changes** gets the letter: number × letter.
2. Find the **one-time** amount.
3. **Join** the parts with + or −.

WATCH ME

the steps in action

Parking is \$4 for each hour *h*, plus a \$5 fee. Write the cost.

Step 1 Each hour: $4h$.

Step 2 One-time amount: 5.

Step 3 $4h + 5$.

Answer **$4h + 5$**

TRY IT WITH HELP

fill in each step

1. A repair is \$9 for each hour r, plus \$14. Write the cost.

Step 1 Each hour: _____

Step 2 One-time amount: _____

Step 3 Expression: _____

2. A plan is \$12 for each gigabyte g, plus \$20. Write the cost.

Step 1 Each gigabyte: _____

Step 2 One-time amount: _____

Step 3 Expression: _____

YOUR TURN

use the steps on your own

3. Write an expression.

a. \$6 per ticket t, plus a \$3 fee _____

b. \$10 per day d, plus a \$15 fee _____

c. \$5 per car c, minus \$20 for soap _____

d. \$2 per cup k, plus an \$8 tip _____

Order of Operations with Powers

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

TODAY'S LESSON	To evaluate $5k^2 - 10$ for $k = 3$, you find 3^2 first.
YOU NEED TO	Evaluate an expression with a power, like $5 \times 3^2 - 10$. **You will use it in Practice Form A, problems 1 and 4.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find the **power** first.
2. **Multiply** or divide next.
3. **Add** or subtract last.

WATCH ME

the steps in action

Evaluate $5 \times 3^2 - 10$.

Step 1 $3^2 = 9$.

Step 2 $5 \times 9 = 45$.

Step 3 $45 - 10 = 35$.

Answer **35**

TRY IT WITH HELP

fill in each step

4. Evaluate $2 \times 4^2 + 1$.

Step 1 $4^2 =$ _____

Step 2 $2 \times 16 =$ _____

Step 3 $32 + 1 =$ _____

5. Evaluate $3 \times 2^3 - 4$.

Step 1 $2^3 =$ _____

Step 2 $3 \times 8 =$ _____

Step 3 $24 - 4 =$ _____

YOUR TURN

use the steps on your own

6. Evaluate.

a. $2 \times 5^2 =$ _____ **b.** $3^2 + 4 =$ _____ **c.** $4 \times 2^2 - 6 =$ _____

d. $10 - 3^2 =$ _____ **e.** $6^2 \div 4 =$ _____ **f.** $2 + 3 \times 2^2 =$ _____

READY CHECK

a problem like the one in today's lesson

7. Evaluate $5k^2 - 10$ when $k = 2$.

A 0 **B** 10 **C** 20 **D** 90

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