Name_____ Date_____ Period_____

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

Evaluate Numerical Expressions

Builds on Grade 5 · 5.OA.A.1

TODAY'S LESSON	Testing $k = 4$ turns $3(k + 2)$ into $3(4 + 2)$, a number expression to evaluate.
YOU NEED TO	Evaluate a number expression with parentheses, like $3(4 + 2)$. **You will use it in Practice Form A, problems 3 and 6.**

STEPS TO FOLLOW

use these same steps on every problem

1. Work **inside** the parentheses first.
2. A number next to ( ) means **multiply**.
3. **Finish**: × and ÷, then + and −.

WATCH ME

the steps in action

Evaluate 3(4 + 2).

Step 1 4 + 2 = 6.

Step 2 3(6) = 3 × 6.

Step 3 3 × 6 = 18.

Answer **18**

TRY IT WITH HELP

fill in each step

1. Evaluate 2(9 + 7).

Step 1 9 + 7 = _____

Step 2 2(16) = 2 × _____

Step 3 2 × 16 = _____

2. Evaluate 3(3 × 7 + 2).

Step 1 3 × 7 + 2 = _____

Step 2 3(23) = 3 × _____

Step 3 3 × 23 = _____

YOUR TURN

use the steps on your own

3. Evaluate.

a. 4(5 + 1) = _____ **b.** 2(10 − 3) = _____ **c.** 5(2 + 6) = _____

d. 3(9 + 1) + 2 = _____ **e.** 6(4 − 2) = _____ **f.** 10(3 + 4) = _____

Apply the Distributive Property

Builds on Grade 3 · 3.OA.B.5

TODAY'S LESSON	Problem 8 asks you to justify that $3(k + 4)$ and $3k + 12$ are equivalent.
YOU NEED TO	Multiply each term inside the parentheses, like $3(k + 4) = 3k + 12$. **You will use it in Practice Form A, problems 6 and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Multiply** the outside number by the first term.
2. Multiply it by the **second** term.
3. **Keep** the + or − sign between them.

WATCH ME

the steps in action

Rewrite $2(y + 7)$ without parentheses.

Step 1 $2 \times y = 2y$.

Step 2 $2 \times 7 = 14$.

Step 3 $2y + 14$.

Answer **$2y + 14$**

TRY IT WITH HELP

fill in each step

4. Rewrite $3(k + 4)$ without parentheses.

Step 1 $3 \times k =$ _____

Step 2 $3 \times 4 =$ _____

Step 3 $3(k + 4) =$ _____

5. Rewrite $5(n - 2)$ without parentheses.

Step 1 $5 \times n =$ _____

Step 2 $5 \times 2 =$ _____

Step 3 $5(n - 2) =$ _____

YOUR TURN

use the steps on your own

6. Rewrite without parentheses.

a. $4(x + 2)$ _____ **b.** $2(a + 9)$ _____ **c.** $6(m - 1)$ _____

d. $3(3v + 2)$ _____ **e.** $7(p + 3)$ _____ **f.** $10(b - 4)$ _____

READY CHECK

a problem like the one in today's lesson

7. Which expression is equivalent to $3(k + 2)$?

A $3k + 2$ **B** $3k + 6$ **C** $k + 6$ **D** $5k$

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