Name _____ Date _____ Period _____

LESSON 6-6 · WARM-UP

Warm-Up Practice

Identify Equivalent Algebraic Expressions

THE MOVE

what this page practices

Evaluate two expressions at the same value and compare

Substitute the same number into both expressions. If the two values match, the expressions match at that value.

Multiply a number by a sum

You may add inside the parentheses first, or multiply each part and then add. Both give the same value.

WORKED MODEL

we do this one together

Step 1	Evaluate $2(x + 3)$ and $2x + 6$ when $x = 4$.
Step 2	$2(x + 3) = 2 \times (4 + 3) = 2 \times$ _____
Step 3	$2x + 6 = 2 \times 4 + 6 =$ _____ $+ 6$
Step 4	Both equal _____

YOUR TURN

8 items · about 10 minutes

1. Evaluate $3(x + 2)$ and $3x + 6$ when $x = 5$. Both equal _____

ANSWER _____

2. Evaluate $4(x + 1)$ and $4x + 4$ when $x = 3$. Both equal _____

ANSWER _____

3. Evaluate $5n - 2$ when $n = 6$. _____

ANSWER _____

4. Evaluate $2(n + 7)$ when $n = 3$. _____

ANSWER _____

5. $3(4 + 5) =$ _____

ANSWER _____

6. $6(2 + 3) =$ _____ and $6 \times 2 + 6 \times 3 =$ _____

ANSWER _____

7. $2(x + 5) = 18$. What is x? _____

ANSWER _____

8. $5x + 2x =$ _____

ANSWER _____