Name_____ Date_____ Period_____

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

Combine Like Terms

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

TODAY'S LESSON	Booth A uses $6t + 5 + 2t$. You can simplify it to $8t + 5$ and compare.
YOU NEED TO	Combine like terms, like $6t + 5 + 2t = 8t + 5$. **You will use it in Practice Form A, problems 2 and 7.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Find** the like terms: same letter.
2. **Add** or subtract their coefficients.
3. **Write** the new term with the numbers.

WATCH ME

the steps in action

Simplify $6t + 5 + 2t$.

Step 1 $6t$ and $2t$ are like terms.

Step 2 $6 + 2 = 8$, so $8t$.

Step 3 $8t + 5$.

Answer $8t + 5$

TRY IT WITH HELP

fill in each step

1. Simplify $3a + 4 + a$.

Step 1 Like terms: _____ and _____

Step 2 $3 + 1 =$ _____

Step 3 _____ $+ 4$

2. Simplify $12m - 4m + 5$.

Step 1 Like terms: _____ and _____

Step 2 $12 - 4 =$ _____

Step 3 _____ $+ 5$

YOUR TURN

use the steps on your own

3. Simplify.

a. $2x + 3x + 1$ _____

b. $4n + 7 + n$ _____

c. $8 + 6y + 2y$ _____

d. $9b + 2 + b$ _____

e. $3w + 3w + 5$ _____

f. $7k + 1 - 2k$ _____

Evaluate Expressions with Parentheses

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

TODAY'S LESSON	To test $3(k + 2)$ against $3k + 2$, you evaluate both when $k = 4$.
YOU NEED TO	Evaluate an expression with parentheses, like $3(k + 2)$ when $k = 4$. **You will use it in Practice Form A, problems 3 and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Replace** the letter with the number.
2. Work **inside** the parentheses.
3. **Multiply** by the number outside.

WATCH ME

the steps in action

Evaluate $3(k + 2)$ when $k = 4$.

Step 1 $3(4 + 2)$.

Step 2 $4 + 2 = 6$.

Step 3 $3 \times 6 = 18$.

Answer 18

TRY IT WITH HELP

fill in each step

4. Evaluate $2(y + 7)$ when $y = 9$.

Step 1 $2(_____ + 7)$

Step 2 $9 + 7 = _____$

Step 3 $2 \times 16 = _____$

5. Evaluate $3(k + 4)$ when $k = 2$.

Step 1 $3(_____ + 4)$

Step 2 $2 + 4 = _____$

Step 3 $3 \times 6 = _____$

YOUR TURN

use the steps on your own

6. Evaluate each expression when $x = 5$.

a. $2(x + 1) = _____$ **b.** $4(x - 3) = _____$ **c.** $3(x + 5) = _____$

d. $10(x - 4) = _____$ **e.** $5(x + 2) = _____$ **f.** $6(1 + x) = _____$

READY CHECK

a problem like the one in today's lesson

7. Compare $3(k + 2)$ and $3k + 2$ when $k = 5$. What do you find?

A 21 and 21. They are equivalent.

B 21 and 17. They are not equivalent.

C 17 and 17. They are equivalent.

D 10 and 17. They are not equivalent.

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