Name_____ Date_____ Period_____

LESSON 6-8 · SESSION 1 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Combine Like Terms

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

TODAY'S LESSON	You will simplify $3(n + 4) + 5n$ to $8n + 12$.
YOU NEED TO	Combine like terms, like $3n + 5n = 8n$. **You will use it in Practice Form A, problems 1, 4, and 5.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Find** the terms with the variable.
2. **Add** their numbers. Keep the variable.
3. **Add** the plain numbers. Write the variable term first.

WATCH ME

the steps in action

Simplify $4w + 9 + 6w - 3$.

Step 1 The variable terms are $4w$ and $6w$.

Step 2 $4 + 6 = 10$, so $10w$.

Step 3 $9 - 3 = 6$. Write $10w + 6$.

Answer **$10w + 6$**

TRY IT WITH HELP

fill in each step

1. Simplify $5p + 2 + 3p$.

Step 1 The variable terms are _____ and _____.

Step 2 $5 + 3$ = _____, so _____.

Step 3 The plain number is _____. Write _____.

2. Simplify $x + 8 + 7x + 1$.

Step 1 The variable terms are _____ and _____.

Step 2 $1 + 7$ = _____, so _____.

Step 3 $8 + 1$ = _____. Write _____.

YOUR TURN

use the steps on your own

3. Simplify.

a. $8a + 3a$ = _____

b. $15n - 6n$ = _____

c. $9 + 4t + 6$ = _____

d. $6v + 10 - 2v$ = _____

e. $12f + 5 - 5f - 3$ = _____

f. $2k + 6k$ = _____

Distribute with Variables

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

TODAY'S LESSON	You will rewrite $5(p + 3)$ as $5p + 15$ before you combine terms.
YOU NEED TO	Multiply the outside number by each term inside, like $3(n + 4) = 3n + 12$. **You will use it in Practice Form A, problems 3, 4, and 5.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Multiply** the outside number by the first term.
2. **Multiply** the outside number by the second term.
3. **Write** both products. Keep the + or − sign.

WATCH ME

the steps in action

Distribute $6(y + 4)$.

Step 1 $6 \times y = 6y$

Step 2 $6 \times 4 = 24$

Step 3 $6y + 24$

Answer $\boldsymbol{6y + 24}$

TRY IT WITH HELP

fill in each step

4. Distribute $3(n + 4)$.

Step 1 $3 \times n =$ _____

Step 2 $3 \times 4 =$ _____

Step 3 Write: _____

5. Distribute $7(b + 2)$.

Step 1 $7 \times b =$ _____

Step 2 $7 \times 2 =$ _____

Step 3 Write: _____

YOUR TURN

use the steps on your own

6. Distribute.

a. $2(x + 7) =$ _____

b. $4(n - 1) =$ _____

c. $3(m + 9) =$ _____

d. $9(c - 5) =$ _____

e. $8(2 + k) =$ _____

f. $2(3x + 1) =$ _____

READY CHECK

a problem like the one in today's lesson

7. Which is equal to $3(n + 4)$?

A $3n + 4$ **B** $3n + 12$ **C** $n + 12$ **D** $7n$

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