Name_____ Date_____ Period_____

LESSON 8-1 · 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	c cans, minus the 75 donated, is $c - 75$. That is one side of the equation.
YOU NEED TO	Write an expression with a letter for a story, like $c - 75$. **You will use it in Practice Form A, problems 3 and 6.**

STEPS TO FOLLOW

use these same steps on every problem

1. Use a **letter** for the unknown amount.
2. Find the **action**: more is +, fewer is −, each is ×.
3. **Write** the letter, the sign and the number.

WATCH ME

the steps in action

A jar has j marbles. You add 12 more.

Step 1 The letter is j.

Step 2 Add more: +.

Step 3 $j + 12$.

Answer $j + 12$

TRY IT WITH HELP

fill in each step

1. A class has c cans. They give away 75.

Step 1 The letter is _____.

Step 2 Give away: _____

Step 3 Expression: _____

2. There are b buses. Each holds 45 students.

Step 1 The letter is _____.

Step 2 Each: _____

Step 3 Expression: _____

YOUR TURN

use the steps on your own

3. Write an expression.

a. s stickers, then 20 more _____

b. m minutes, then 15 fewer _____

c. t teams of 6 players each _____

d. p pens, then 9 are lost _____

Check a Solution by Substituting

Builds on Lesson 8-1 Session 1 · 6.EE.B.5

TODAY'S LESSON	You will test $b = 4$ in $45b = 180$. Is it the solution?
YOU NEED TO	Put a value into an equation and check it, like $45b = 180$ when $b = 4$. **You will use it in Practice Form A, problems 2 and 7.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Replace** the letter with the value.
2. **Evaluate** the side with the letter.
3. **Compare** to the other side. Equal means it is the solution.

WATCH ME

the steps in action

Is $s = 33$ a solution of $s + 28 = 61$?

Step 1 $33 + 28$.

Step 2 $33 + 28 = 61$.

Step 3 $61 = 61$. Yes, it is the solution.

Answer **Yes**

TRY IT WITH HELP

fill in each step

4. Is $b = 4$ a solution of $45b = 180$?

Step 1 $45 \times$ _____

Step 2 $45 \times 4 =$ _____

Step 3 Is 180 equal to 180? _____

5. Is $m = 50$ a solution of $m - 15 = 39$?

Step 1 _____ $- 15$

Step 2 $50 - 15 =$ _____

Step 3 Is 35 equal to 39? _____

YOUR TURN

use the steps on your own

6. Is the value a solution? Write yes or no.

a. $c - 75 = 22$, $c = 97$ _____

b. $n + 17 = 40$, $n = 23$ _____

c. $6n = 54$, $n = 8$ _____

d. $n \div 3 = 7$, $n = 21$ _____

READY CHECK

a problem like the one in today's lesson

7. Lena tests $w = 30$ in $w + 58 = 90$. What does she find?

A No: $30 + 58 = 88$

B Yes: $30 + 58 = 90$

C Yes: $90 - 58 = 28$

D No: $30 + 58 = 148$

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