Name_____ Date_____ Period_____

**LESSON 8-4 · SESSION 1 · PREREQUISITE PRACTICE B · SKILL 1 OF 2**

# Test Values in Equations

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

| | |
|---|---|
| **TODAY'S LESSON** | To answer "Does exactly 9 GB work?", you put 9 into the rule and check it. |
| **YOU NEED TO** | Put a value into an equation and see if it makes it true. **You will use it in Practice Form A, problems 4 and 5.** |

## 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 a solution.

## WATCH ME

*the steps in action*

**Is $n = 5$ a solution of $7n - 5 = 30$?**

**Step 1** $7(5) - 5$.

**Step 2** $35 - 5 = 30$.

**Step 3** $30 = 30$. Yes, it is a solution.

**Answer** **Yes**

## TRY IT WITH HELP

*fill in each step*

**1.** Is $m = 8$ a solution of $6m = 54$?

**Step 1** 6(_____)

**Step 2** $6 \times 8 =$ _____

**Step 3** Is 48 equal to 54? _____

**2.** Is $k = 48$ a solution of $k \div 4 = 12$?

**Step 1** _____ $\div 4$

**Step 2** $48 \div 4 =$ _____

**Step 3** Is 12 equal to 12? _____

## YOUR TURN

*use the steps on your own*

**3.** Is the value a solution? Write yes or no.

**a.** $x + 18 = 45$; $x = 27$ _____

**b.** $9t = 72$; $t = 8$ _____

**c.** $r + 9 = 17$; $r = 9$ _____

**d.** $21 \div r = 7$; $r = 3$ _____

**e.** $4n + 1 = 25$; $n = 6$ _____

**f.** $n - 7 = 12$; $n = 5$ _____

# Write Equations for Situations

Builds on Lesson 8-1 Session 2 · 6.EE.B.6

| | |
|---|---|
| **TODAY'S LESSON** | Problem 8 says "Let $h$ = height in inches." You name the letter first. |
| **YOU NEED TO** | Name a letter for an amount, then write a math sentence. **You will use it in Practice Form A, problems 3 and 8.** |

## STEPS TO FOLLOW

*use these same steps on every problem*

1. **Let** a letter stand for the unknown amount.
2. **Find** the operation and the other number.
3. **Write** the sentence with = and the total.

## WATCH ME

*the steps in action*

**Kai saves $8 each week. He has saved $56. Write an equation for the weeks.**

**Step 1** Let $w$ = the number of weeks.

**Step 2** $8 each week: $8 \times w$.

**Step 3** $8w = 56$.

**Answer** $\mathbf{8w = 56}$

## TRY IT WITH HELP

*fill in each step*

**4.** Some students and 4 teachers ride a bus. There are 30 people. Use $s$.

**Step 1** Let _____ = the number of students.

**Step 2** Add the _____ teachers: $s + 4$.

**Step 3** Sentence: _____

**5.** A garden has 8 rows with the same number of plants. There are 96 plants. Use $p$.

**Step 1** Let _____ = the plants in one row.

**Step 2** 8 rows: 8 × _____.

**Step 3** Sentence: _____

## YOUR TURN

*use the steps on your own*

**6.** Write an equation. Use $n$ for the number.

**a.** a number plus 12 is 30 _____

**b.** 5 times a number is 45 _____

**c.** a number minus 7 is 20 _____

**d.** a number divided by 3 is 6 _____

## READY CHECK

*a problem like the one in today's lesson*

**7.** A club sold $t$ tickets. Then it sold 20 more. Now it has sold 150. Which sentence fits?

**A** $t + 20 = 150$ **B** $20t = 150$ **C** $t - 20 = 150$ **D** $t + 150 = 20$

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