Name_____ Date_____ Period_____

LESSON 8-5 · SESSION 2 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Test Solutions of Equations

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

TODAY'S LESSON	You will put 95 into $w > 80$ and check if it is true.
YOU NEED TO	Put a value into an equation, like $m = 4$ in $3m = 12$, and check it. **You will use it in Practice Form A, problems 1 and 2.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Replace** the letter with the value.
2. **Compute** that side.
3. **Compare** both sides. The same number means yes, a solution.

WATCH ME

the steps in action

Is $m = 4$ a solution of $3m = 12$?

Step 1 Replace m with 4: 3×4.

Step 2 Compute: $3 \times 4 = 12$.

Step 3 Compare: $12 = 12$. Yes.

Answer **Yes, $m = 4$ is a solution.**

TRY IT WITH HELP

fill in each step

1. Is $n = 8$ a solution of $n - 3 = 6$?

Step 1 Replace n with 8: _____ − 3.

Step 2 Compute: 8 − 3 = _____.

Step 3 Compare: _____ and 6. Solution? _____

2. Is $y = 30$ a solution of $y \div 5 = 6$?

Step 1 Replace y with 30: _____ ÷ 5.

Step 2 Compute: 30 ÷ 5 = _____.

Step 3 Compare: _____ and 6. Solution? _____

YOUR TURN

use the steps on your own

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

a. $k = 11$ in $k + 9 = 21$: _____

b. $p = 25$ in $4p = 100$: _____

c. $w = 16$ in $w - 7 = 9$: _____

d. $a = 6$ in $7a = 48$: _____

e. $t = 45$ in $t \div 9 = 5$: _____

f. $x = 12$ in $x \div 3 = 4$: _____

Graph Inequalities

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

TODAY'S LESSON	You will graph $x \leq 5$ after you test 5 and 6.
YOU NEED TO	Pick the dot and the arrow, like $x \leq 5$: closed dot, arrow left. **You will use it in Practice Form A, problems 2, 6, and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1 Put a **dot** on the number in the inequality.

2 **Closed** dot for ≤ or ≥. Open dot for < or >.

3 Arrow **right** for > or ≥. Arrow left for < or ≤.

WATCH ME

the steps in action

Graph $n > 45$.

Step 1 Put a dot on 45.

Step 2 > has no equal part, so the dot is open.

Step 3 > means greater, so the arrow goes right.



Answer **Open dot at 45, arrow right.**

TRY IT WITH HELP

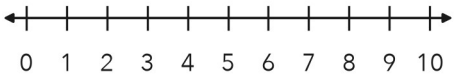
fill in each step

4. Graph $x \leq 5$.

Step 1 Put a dot on _____.

Step 2 ≤ includes equal, so the dot is _____.

Step 3 ≤ means less, so the arrow goes _____.



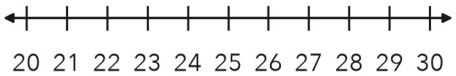
Problem 4

5. Graph $c < 25$.

Step 1 Put a dot on _____.

Step 2 < has no equal part, so the dot is _____.

Step 3 < means less, so the arrow goes _____.



Problem 5

YOUR TURN

use the steps on your own

6. Write the dot (open or closed) and the arrow (left or right).

a. $s \geq 18$ _____ **b.** $t > 220$ _____ **c.** $p \leq 50$ _____

d. $w \geq 9$ _____ **e.** $x \leq -2$ _____ **f.** $j < 30$ _____

READY CHECK

a problem like the one in today's lesson

7. A bag can weigh at most 50 pounds: $w \leq 50$. Which graph is right?

A Open dot at 50, arrow left **B** Closed dot at 50, arrow left

C Closed dot at 50, arrow right **D** Open dot at 50, arrow right

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