

Name:

UNIT 2 STUDY GUIDE

PART ONE Solving Absolute Value Equations. Check your work by substituting your answers back in!

Steps to Solving Absolute Value Equations:

1. Isolate Absolute Value Sign
2. Check... is the Absolute Value Sign equal to a negative?
 - a. If Yes... No Solution! You are done!
 - b. If No, Split the equations into two.
 - i. One positive and One Negative
3. Solve the two equations
4. Check your answers by substituting the solutions back in.
5. State your final answers.



1. $|3x| = 27$

2. $|r - 9| = 21$

3. $|10 - 10k| = 50$

4. $|6 - 3x| = -9$

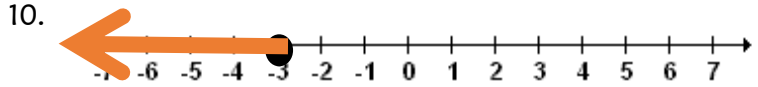
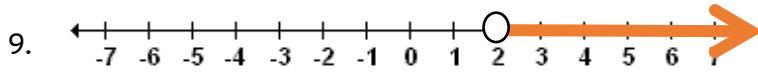
5. $|3v - 9| - 1 = 2$

6. $|x - 9| = 2x$

7. $3|2x + 3| + 4 = 79$

8. $1 + 8|6c - 9| = 73$

PART TWO Write an inequality to represent each graph.



Inequality

8. _____

9. _____

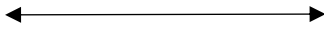
10. _____

PART THREE Graph the following inequalities.

12. $x \leq -3$

13. $5 > x$

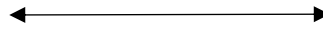
14. $x \geq 12$



PART FOUR Solve and graph the following inequalities.

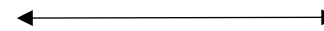
15. $x - 4 > 10$

16. $-9 \leq 3r - 6$



17. $-m + 3 - 12m \geq -75$

18. $\frac{1}{3}x - 4 < 8$



19. $-4(2 - 4n) > 72 + 16n$

20. $v + 5 - 8v \leq 7(1 - v)$



PART FIVE Self Reflect

On a scale of 1-5 (1 = I need to study more!! ... 5=I am going to ACE this test)... how do you feel about...

| | | | | | |
|------------------------------------|---|---|---|---|---|
| ✓ Solving Absolute Value Equations | 1 | 2 | 3 | 4 | 5 |
| ✓ Solving Linear Inequalities | 1 | 2 | 3 | 4 | 5 |
| ✓ Graphing Linear Inequalities | 1 | 2 | 3 | 4 | 5 |

What are you going to do to prepare for the test to make sure you are ready?!