

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. $|3x| = 27$

Check your work!

2. $|r - 9| = 21$

Check your work!

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

Check your work!

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

Check your work!

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

Check your work!

6. $8|6c - 9| = 72$

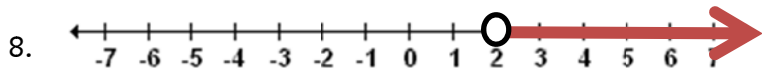
Check your work!

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

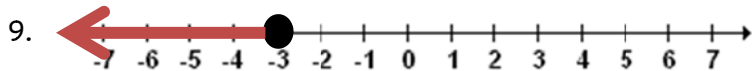
Check your work!

PART TWO: Write an inequality to represent each graph.

Inequality



8. _____



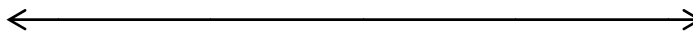
9. _____



10. _____

PART THREE: Graph the following inequalities.

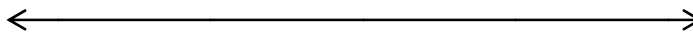
11. $x \leq -3$



12. $5 > x$

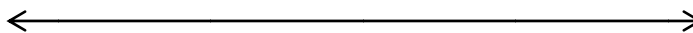


13. $x \geq 12$

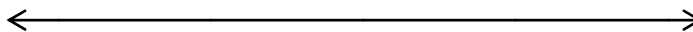


PART FOUR: Solve and graph the following inequalities.

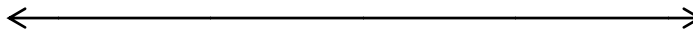
14. $x - 4 > 10$



15. $-9 \leq 3r - 6$

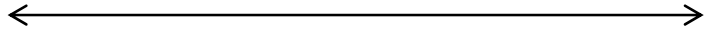


16. $-m + 3 - 12m \geq -75$

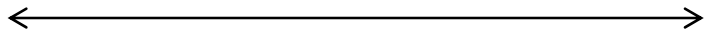


PART FOUR (continued): Solve and graph the following inequalities.

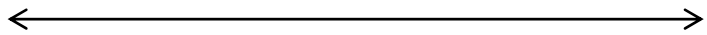
17. $\frac{1}{3}x - 4 < 8$



18. $-4(2 - 4n) > 72 + 16n$



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



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?!