

**Algebra 1**  
**Practice Quiz 5.1-5.3**

NAME \_\_\_\_\_

Solve each inequality and then graph (1-8 only) on a number line which is provided on the right. (2 Points)

1.  $x + 4 > 11$

2.  $x - 5 \leq 13$

1. \_\_\_\_\_  
←—————→

2. \_\_\_\_\_  
←—————→

3.  $-2 \geq x - 7$

4.  $4x + 8 < 5x$

3. \_\_\_\_\_  
←—————→

4. \_\_\_\_\_  
←—————→

5.  $11 + x \leq 4$

6.  $4x \geq 12$

5. \_\_\_\_\_  
←—————→

6. \_\_\_\_\_  
←—————→

7.  $-7x \geq 35$

8.  $\frac{x}{4} > 9$

7. \_\_\_\_\_  
←—————→

8. \_\_\_\_\_  
←—————→

9.  $\frac{3}{4}x \leq 12$

10.  $-64 \geq 8x$

9. \_\_\_\_\_  
10. \_\_\_\_\_

Points (20) \_\_\_\_\_

**Write an inequality and then solve. (2 Points)**

11. The sum of a number and 15 is at most 24.

11. \_\_\_\_\_

12. 3 times a number is at least 27.

12. \_\_\_\_\_

13. 3 times the sum of a number and 4 is no more than 21.

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

**Solve each inequality. (3 Points)**

14.  $3x - 12 \leq 21$

15.  $8x - 14 < 3x + 21$

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

16.  $5(x - 3) \geq 3x + 9$

17.  $\frac{4}{3}x - 6 > 10$

19. \_\_\_\_\_

Points (24) \_\_\_\_\_

18.  $3(x - 2) + 8 \leq 7(x + 3) + 5$

19.  $\frac{3x - 6}{4} > 3$