

Name _____ Date _____ Pd _____

2.8 Solving Linear Inequalities CYU DAY ONE

Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Graphing inequalities	1 - 10	11 - 20	21 - 28
Interval notation	1 - 10	11 - 20	21 - 28
Solving Inequalities	11 - 16	17 - 20	21 - 28

Graph each set of numbers given in interval notation. Then write an inequality statement in x describing the numbers graphed.

1. $(2, \infty)$

3. $(-\infty, -5)$

2. $(-3, \infty)$

4. $(-\infty, 4]$

Graph each inequality on a number line. Then write the solutions in interval notation.

5. $x \leq -1$

8. $z < -\frac{2}{3}$

6. $y < 0$

9. $y \geq 5$

7. $x < \frac{1}{2}$

10. $x > 3$

Solve each inequality. Graph the solution set and write it in interval notation.

11. $2x < -6$

13. $x - 2 \geq -7$

12. $3x > -9$

14. $x + 4 \leq 1$

15. $-8x \leq 16$

23. $-6x + 2 \geq 2(5 - x)$

16. $-5x < 20$

24. $-7x + 4 > 3(4 - x)$

17. $3x - 5 > 2x - 8$

18. $3 - 7x \geq 10 - 8x$

25. $4(3x - 1) \leq 5(2x - 4)$

19. $4x - 1 \leq 5x - 2x$

26. $3(5x - 4) \leq 4(3x - 2)$

20. $7x + 3 < 9x - 3x$

27. $3(x + 2) - 6 > -2(x - 3) + 14$

21. $x - 7 < 3(x + 1)$

22. $3x + 9 \leq 5(x - 1)$

28. $7(x - 2) + x \leq -4(5 - x) - 12$

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

