

NAME: _____ Per.: _____

* ALL WORK ON LOOSE LEAF *

DATE: _____

1 to 15 Required

16-20 Bonus
(if # 1-15 are complete)

(EX) $|x-2| + 5 \leq 21$

$$\begin{array}{ccc} & -5 & -5 \\ |x-2| + 5 & \leq & 21 \end{array}$$

$$|x-2| \leq 16$$

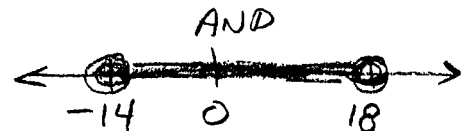
$$\begin{array}{l} \swarrow \quad \searrow \\ \begin{array}{l} x-2 \leq 16 \\ +2 \quad +2 \\ \hline x \leq 18 \end{array} \quad \left\{ \begin{array}{l} -(x-2) \leq 16 \\ x-2 \geq -16 \\ +2 \quad +2 \end{array} \right. \end{array}$$

$$\boxed{x \leq 18} \quad \text{AND} \quad \boxed{x \geq -14}$$

(STEP 1) $\Rightarrow$ GET ABSOLUTE
VALUE BY ITSELF

(STEP 2) $\Rightarrow$ SPLIT INTO
TWO INEQUALITIES
OR EQUATIONS

(NOTE) $\rightarrow$ GRAPH TO SEE
IF "AND" or "OR"



Lesson 6-5

Solve each open sentence. Then graph the solution set.

1. $|y-9| < 19$

3. $|t-5| \leq 3$

5. $|14-2z| = 16$

7. $|2m-5| > 13$

9. $|13-5y| = 8$

11. $|6b-12| \leq 36$

13. $|7+8x| > 39$

15. $|4-5s| > 46$

17. $\left| \frac{2n-1}{3} \right| = 10$

19. $|-2+(x-3)| \leq 7$

2. $|g+6| > 8$

4. $|a+5| \geq 0$

6. $|a-5| = -3$

8. $|14-w| \geq 20$

10. $|3p+5| \leq 23$

12. $|25-3x| < 5$

14. $|4c+5| \geq 25$

16. $|4-(1-x)| \geq 10$

18. $\left| \frac{7-2b}{2} \right| \leq 3$

20. $|-3-(2b-6)| \geq 10$