

NAME _____

Module 6 Solving Absolute Value Equations and Inequalities**Lesson 4** Solving Inequalities Using “Absolute Value is Greater Than”

**additional
practice**

Solve each inequality and graph the solution set.

1. $|b| \geq -3$ \mathcal{R} _____



2. $|m| > 3.5$ $m > 3.5$ or $m < -3.5$ _____



3. $|p - 1| \geq 4$ $p \geq 5$ or $p \leq -3$ _____



4. $|\frac{3}{4}j| \geq \frac{3}{2}$ $j \geq 2$ or $j \leq -2$ _____



5. $|k + 2| > 0$ $k \neq 2$ _____



6. $|2d + 3| \geq 3$ $d \geq 0$ or $d \leq -3$ _____



7. $|\frac{h}{2} + 5| > 1$ $h > -8$ or $h < -12$ _____



8. $|2r - 1| \geq 6$ $r \geq 3.5$ or $r \leq -2.5$ _____



9. $|2x + 4| \geq 4$ $x \geq 0$ or $x \leq -4$ _____



10. $4|h| > 14$ $h > 3\frac{1}{2}$ or $h < -3\frac{1}{2}$ _____



11. $|z + 3| - 12 \geq -10$ $z \geq -1$ or $z \leq -5$ _____



12. $|\frac{3g}{9}| \geq 0$ \mathcal{R} _____



13. $5 + \left| \frac{y}{6} + 3 \right| \geq 4$ \mathcal{R} _____



14. $2|2s - 3| + 1 > 5$ $s > 2.5$ or $s < 0.5$ _____



Match the graph to the correct inequality.



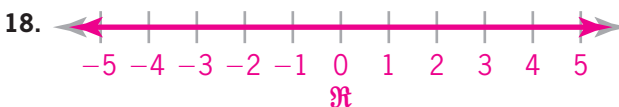
- A. $|2h| \leq 5$
- B. $|2h| \geq -5$
- C. $|5h| \leq -5$
- D. $|2h| \geq 5$



- A. $|w| - 4 \geq -2$
- B. $|w| - 4 \leq 2$
- C. $|w - 4| \geq -2$
- D. $|w| - 4 \leq 2$



- A. $|2m - 1| > 3$
- B. $|m + 1| > 3$
- C. $|m - 1| > 3$
- D. $|2m - 1| > 3$



- A. $|9y| > 0$
- B. $|9y| \leq 0$
- C. $|9y| \geq 0$
- D. $|9y| < 0$



- A. $|t - 1| \geq 3$
- B. $|t - 1| \geq 4$
- C. $|t - 3| \geq 1$
- D. $|5t| \geq \frac{1}{3}$



- A. $|3r| - 9 > -3$
- B. $|3r - 9| > -3$
- C. $3r - 9 > |-3|$
- D. $|3r| - 9 < -3$