

NAME \_\_\_\_\_

DATE \_\_\_\_\_

**Module 6** Solving Absolute Value Equations and Inequalities

**Lesson 3** Solving Inequalities Using “Absolute Value is Less Than”

**additional practice**

Solve each inequality and graph the solution set.

1.  $|j| \leq -1$  \_\_\_\_\_



2.  $|b| < 3.5$  \_\_\_\_\_



3.  $|y + 2| \leq 4$  \_\_\_\_\_



4.  $|\frac{1}{2}q| \leq \frac{5}{4}$  \_\_\_\_\_



5.  $|w - 1| < 4$  \_\_\_\_\_



6.  $|2s + 3| \leq 2$  \_\_\_\_\_



7.  $|\frac{y}{2} + 1| < 2$  \_\_\_\_\_



8.  $|4r - 9| \leq 1$  \_\_\_\_\_



9.  $|8d + 5| \leq 11$  \_\_\_\_\_



10.  $9|z| < 27$  \_\_\_\_\_



11.  $|c + 2| - 3 \leq 0$  \_\_\_\_\_



12.  $|\frac{7h - 1}{12}| < 0$  \_\_\_\_\_



13.  $5 + \frac{p}{2} + 1 \leq 4$  \_\_\_\_\_



14.  $3|2j - 1| \leq 9$  \_\_\_\_\_



Match the graph to the correct inequality.



- A.  $|x - 2| \leq 2$
- B.  $|x| \leq 2$
- C.  $|x + 2| \leq -2$
- D.  $|x| < 2$



- A.  $|x - 3| \leq 2$
- B.  $|x - 2| \leq 3$
- C.  $|x - 5| \leq 1$
- D.  $|x - 2| \leq 3$



- A.  $|x - 3| \leq 3$
- B.  $|3x| \leq 1$
- C.  $|x - 3| < 3$
- D.  $\left|\frac{x}{3}\right| < 1$



- A.  $-5|y| < 5$
- B.  $4|y| < 20$
- C.  $4|y| \leq 20$
- D.  $-5|y| \leq 5$



- A.  $|2j - 1| < 3$
- B.  $|2j - 2| < 2$
- C.  $|2j - 1| \leq 3$
- D.  $|2j + 2| < 2$



- A.  $|x - 2| < 1.5$
- B.  $|2x| < 5$
- C.  $|x - 2| < 2$
- D.  $\left|\frac{x}{2}\right| < 1.5$

