Name _____

Practice
15-3

Inequalities and the Number Line

Name three solutions of each inequality. Then graph each inequality on a number line.

1. $b \geq 5$

5, 6, 8

2. $s + 2 \leq 4$

2, 1, 0

3. $x \leq 3$

0, 1, 2, 3

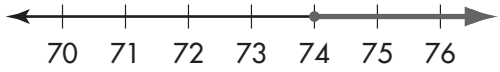
4. $d - 1 \geq 6$

8, 9, 10

5. Lizette wants to read more books. Her goal is to read at least 2 books each month. Let m represent the number of books she will read in a year. Use $m \geq 24$ to graph the number of books she plans to read on a number line.

6. Estimation Marcus is making cookies for his class. There are 26 students, and he wants to bring 3 cookies per student. On Sunday, he runs out of time and decides he must buy at least half the cookies and will make no more than half from scratch. Draw a graph to represent how many cookies he will make himself.

7. Which sentence is graphed on the line below?



A $m > 74$ **B** $m \geq 74$ **C** $m = 74$ **D** $m < 74$

8. Explain It How do you know whether to use an open circle or a closed circle when graphing an inequality?

Use an open circle when the inequality symbol is $>$ or $<$. Use a closed circle when the inequality symbol is $\geq$ or $\leq$.

Practice 15-3