

3-1**Practice B***Form K*

Inequalities and Their Graphs

Write an inequality that represents each verbal expression.

- 1.
- a
- is greater than 4.

$$a \boxed{} > 4$$

- 2.
- c
- is less than or equal to -2.

$$c \boxed{} \leq -2$$

- 3.
- m
- is greater or equal to 1.

$$m \boxed{} \geq 1$$

- 4.
- f
- is less than 2.

$$f \boxed{} < 2$$

Determine whether each number is a solution of the given inequality. The first step is shown.

- 5.
- $2x + 4 < 20$

a.

Substitute 2 for x . $2(2) + 4 \stackrel{?}{<} 20$

b. 10

Substitute 10 for x . $2(10) + 4 \stackrel{?}{<} 20$

Graph each inequality.

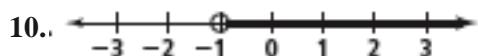
6. $m < 1$

7. $n \geq 5$

8. $j > -4$

9. $k \leq 10$

Write an inequality for each graph.



Define a variable and write an inequality to model each situation.

12. No more than 10 people may use the treadmills at any time in the gym.

Let $n =$

n 10

13. To train for a marathon, a runner decides that she must run at least 12 miles each day.

Let $d =$

d 12