

**3-1****Practice**

Form K

**Inequalities and Their Graphs****Write an inequality that represents each verbal expression.**

- 1.
- $a$
- is greater than 4.

$a \square 4$

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

$c \square -2$

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

$m \square 1$

- 4.
- $f$
- is less than 2.

$f \square 2$

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

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

- a. 2

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

- b. 10

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

# 3-2

## Practice (continued)

Form K

### Inequalities and Their Graphs

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  $n =$

$n \square 10$

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

Let  $d =$

$d \square 12$