Form K

Practice

Inequalities and Their Graphs

Write an inequality that represents each verbal expression.

1. *a* is greater than 4.

$a \mid a \mid a$

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



3. m is greater or equal to 1.

m		1
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4. *f* is less than 2.

£	2
J	

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<20

b. 10

Substitute 10 for *x*.

? 2(10) + 4<20

Practice (continued)

Form K

Inequalities and Their Graphs

Graph each inequality.

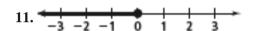
6.
$$m < 1$$

7.
$$n \ge 5$$

8.
$$j > -4$$

9.
$$k \le 10$$

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
$$n =$$

$$n \mid 10$$

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

Let
$$d =$$

$$d$$
 12