$\qquad$
$\qquad$

## Chapter 2 <br> Test B

Write the sentence as an inequality.

1. The product of a number $n$ and 2 is no less than 14 .
2. The speed $s$ on a highway is at most 60 miles per hour.
3. The length $r$ of a rope should be at least 28 inches.

Write an inequality that represents the graph.
4.

5.


Solve the inequality. Graph the solution.
6. $x+5 \leq-2$

7. $4 q>-28$


Solve the inequality.
8. $2 k>2 k+4$
9. $4 p<6 p+12$
10. $2.5 w-5<2 w+5$
11. $5(p-1)>6 p-7$
12. $5 n+3 \geq 4-(6-5 n)$
13. $5-2 x<4-2 x+3$

## Answers

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. $\qquad$ See left.
7. $\qquad$

See left.
8. $\qquad$
9. $\qquad$
10. $\qquad$
11. $\qquad$
12. $\qquad$
13. $\qquad$
14. $\qquad$

See left.
15. $\qquad$
See left.
16. $\qquad$
17. $\qquad$
18. $\qquad$
19. $\qquad$
$\qquad$
Chapter 2

## Test B (continued)

## Write and graph a compound inequality that represents the numbers that are not solutions of the inequality represented by the graph shown.

20. 


21.

22. You need to earn at least $\$ 75$. You earn $\$ 6.00$ for each hour you work. Write and solve an inequality that represents the number of hours $h$ that you need to work.
23. You need at least 150 cups of lemonade but less than 225 cups of lemonade for a picnic. Each batch of lemonade makes 25 cups of lemonade. Write and solve an inequality that represents the number of batches $b$ you need to make.
24. You have a goal to practice the piano for an average of at least 50 minutes per day for 1 week. The first 6 days you practice a total of 245 minutes. Write and solve an inequality that represents the number of minutes $m$ you need to practice on the seventh day.
25. The cost to rent a construction crane is $\$ 1500$ per day plus $\$ 250$ per hour of use. Write and solve an inequality that can be used to determine the maximum number of hours $h$ the crane can be used if the rental cost for one day will not exceed $\$ 5000$.

## Answers

20. $\qquad$
See left.
21. $\qquad$
See left.
22. $\qquad$
23. $\qquad$
$\qquad$
24. $\qquad$
25. $\qquad$
$\qquad$
