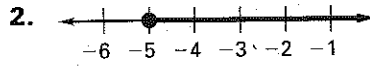
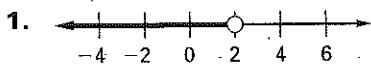


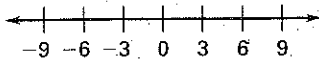
CHAPTER 6 **Chapter Test A**
For use after Chapter 6

Write an inequality represented by the graph.

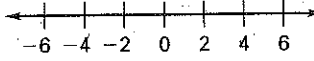


Solve the inequality. Graph your solution.

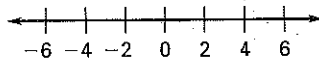
3. $x - 6 > -3$



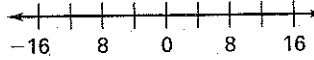
4. $w + 7 \leq 5$



5. $-4t \geq -16$



6. $\frac{n}{2} < 6$



7. You want to buy a pair of sneakers at a shoe store, and you can spend at most \$80. You have a coupon for \$10 off any pair of shoes at the store. Write and solve an inequality to find the original prices p of sneakers that you can buy.

Solve the inequality, if possible.

8. $5y + 12 \leq 7$

9. $3x - 4 \geq 8$

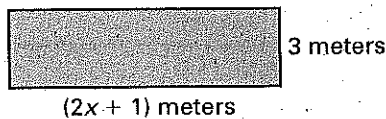
10. $4 - 5t \geq -21$

11. $2(k + 4) > 2k - 3$

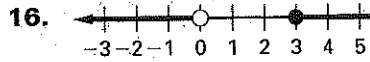
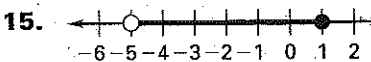
12. $2a - 1 < 6a + 7$

13. $8p + 7 - 6p > 2p + 9$

14. Write and solve an inequality to find the possible values of x if the maximum area of the rectangle is to be 63 square meters.



Write a compound inequality represented by the graph.



Answers

1. _____

2. _____

3. _____

See left.

4. _____

See left.

5. _____

See left.

6. _____

See left.

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

CHAPTER 6

Chapter Test B *continued*
For use after Chapter 6

Solve the compound inequality. Graph your solution.

17 ~~14.~~ $5 - x > 2$ or $5 \leq x - 7$

18 ~~15.~~ $-10 \leq 2(x - 1) < 14$

19 ~~16.~~ The water pressure p (in pounds per square inch) exerted on an object in the ocean can be given by the function $p = 15 + \frac{6}{11}d$ where d is the depth (in feet) below the surface of the water. What are the possible water pressures of an object when the depth ranges from 102 feet to 468 feet?

Answers

- 17 ~~14.~~ _____
See left.
- 18 ~~15.~~ _____
See left.
- 19 ~~16.~~ _____

Solve the equation or inequality, if possible.

20 ~~17.~~ $|3x - 1| = 2$

21 ~~18.~~ $2|x| - 7 = 3$

22 ~~18.~~ $2|x + 8| + 6 = 0$

23 ~~20.~~ $|x - 2| + 6 > 9$

24 ~~21.~~ $-2|4 - x| \leq -4$

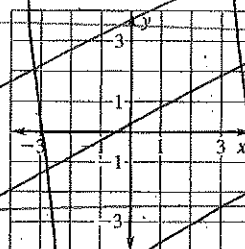
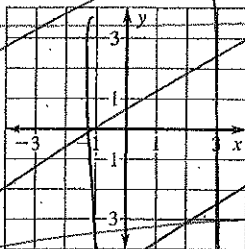
25 ~~22.~~ $|2x - 8| < 0$

- 20 ~~17.~~ _____
- 21 ~~18.~~ _____
- 22 ~~19.~~ _____
- 23 ~~20.~~ _____
- 24 ~~21.~~ _____
- 25 ~~22.~~ _____

Graph the inequality.

23. $y > -3x - 2$

24. $x - 3y < 6$

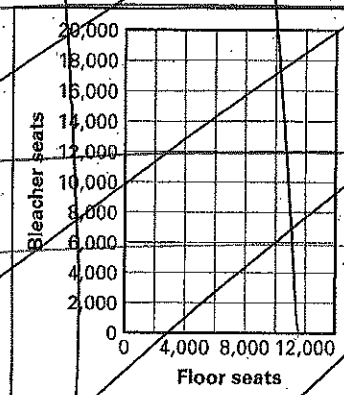


In Exercises 25 and 26, use the following information.

A concert promoter needs to take in at least \$380,000 from ticket sales. The promoter charges \$30 for floor seats and \$20 for bleacher seats.

25. Write and graph an inequality that describes the goal in terms of selling bleacher seat tickets and selling floor seat tickets.

26. Identify and interpret one of the solutions.



- 23 See left.
- 24 See left.
- 25 _____
See left.
- 26 _____

