

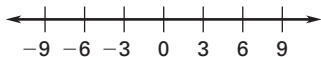
CHAPTER 6 **Chapter Test A**
For use after Chapter 6

Write an inequality represented by the graph.

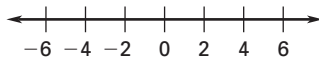


Solve the inequality. Graph your solution.

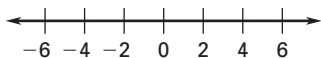
3. $x - 6 > -3$



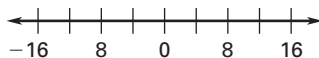
4. $w + 7 \leq 5$



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. $3x - 4 \geq 8$

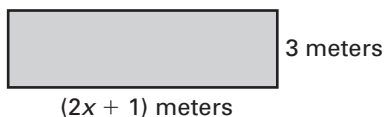
10. $4 - 5t \geq -21$

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

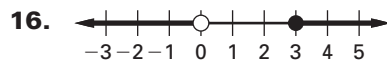
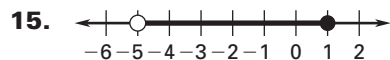
12. $2a - 1 < 6a + 7$

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. _____

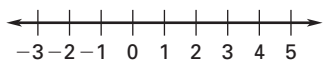
16. _____

CHAPTER 6

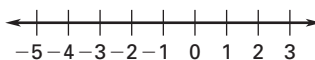
Chapter Test A *continued*
For use after Chapter 6

Solve the compound inequality. Graph your solution.

17. $x + 2 > 5$ or $3x \leq 3$



18. $-6 \leq 5x + 14 \leq 24$



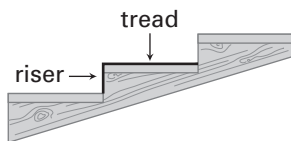
Solve the absolute value equation.

19. $|x| = 4$

20. $|x + 2| = 9$

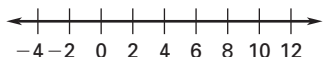
21. $|x - 1| + 3 = 5$

22. A building code regulation requires that the slope of the riser to the tread of a staircase be 60% with an absolute deviation of 10%. Find the maximum and minimum slopes of the staircase.

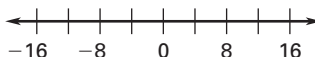


Solve the absolute value inequality. Graph your solution.

23. $|x - 6| \leq 4$



24. $|x| + 2 > 10$



Determine whether the ordered pair is a solution of the inequality.

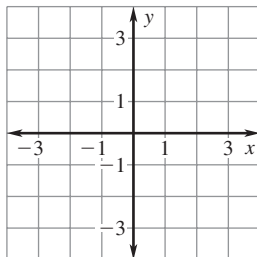
25. $x + y < 7$; (2, 4)

26. $y \geq 4x - 3$; (0, 0)

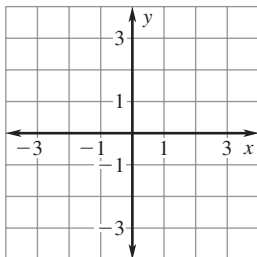
27. $x + 2y > 4$; (2, 1)

Graph the inequality.

28. $y < 2x - 1$



29. $y \geq -x + 3$



Answers

17. _____

See left.

18. _____

See left.

19. _____

20. _____

21. _____

22. _____

23. _____

See left.

24. _____

See left.

25. _____

26. _____

27. _____

28. See left.

29. See left.