

Unit 4: Inequalities

Name: _____

Date: _____

- The inequality $3x + 2 > x + 8$ is equivalent to
 - $x > -\frac{3}{2}$
 - $x > \frac{3}{2}$
 - $x > 3$
 - $x < 3$
- The smallest whole number that satisfies the inequality $3x - 1 > 2$ is
 - 1
 - 2
 - 3
 - 0
- Which inequality is the solution of $5x - 1 < 29$?
 - $x > 7$
 - $x < 7\frac{1}{4}$
 - $x < 6$
 - $x > 5\frac{3}{5}$
- The inequality $2x > x + 7$ is equivalent to
 - $x > 7$
 - $x < 7$
 - $x = 7$
 - $x > \frac{7}{3}$
- What is the *greatest* whole number that satisfies the inequality $3x - 1 < 8$?
- Which is the *smallest* integer that makes the inequality $2x + 3 > 5$ true?
 - 1
 - 2
 - 5
 - 4
- Which number is not a member of the solution set of $5x \leq 23$?
 - 0
 - 4.7
 - 4.6
 - 4.7
- Which inequality is equivalent to $2x + 6 > 2$?
 - $x > -2$
 - $x < -2$
 - $x > 2$
 - $x < 2$
- Which is the greatest integer that makes the inequality $3 - 2x > 9$ a true statement?
 - 2
 - 2
 - 5
 - 4
- One member of the solution set of $3x - 1 \geq 4$ is
 - 1
 - $\frac{2}{3}$
 - $\frac{5}{3}$
 - $-\frac{4}{3}$
- The expression $5 \leq x - 2$ is equivalent to
 - $x \leq 7$
 - $x \geq 7$
 - $x \geq 3$
 - $x \geq \frac{5}{2}$
- Which element is in the solution set for the inequality $5x - 2 < 8$?
 - 0
 - 2
 - 3
 - 5

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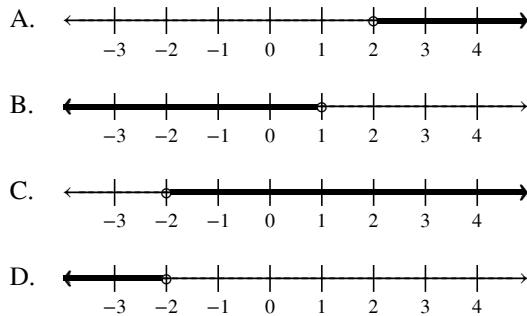
13. Which number is *not* a member of the solution set of the inequality $4x \geq 18$?

- A. 4.4 B. 4.5 C. 4.6 D. 4.7

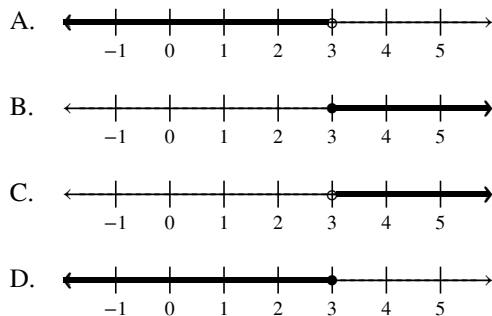
14. A member of the solution set of $-1 \leq x < 4$ is

- A. -1 B. -2 C. 5 D. 4

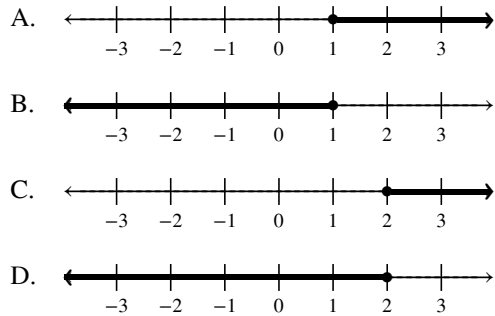
15. Which graph represents the solution set of the inequality $4x > -8$?



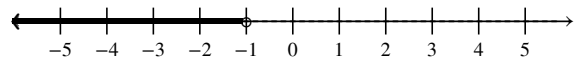
16. Which graph represent the solution of the inequality $2x + 3 > 9$?



17. Which graph represents the solution set of $2x + 1 \geq 3$?

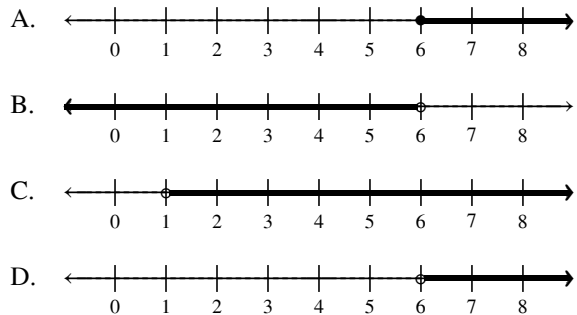


18. Which inequality is represented by the graph?



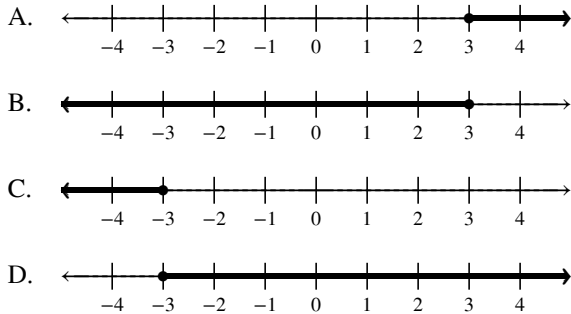
- A. $x > -1$ B. $x \leq -1$
 C. $x < -1$ D. $x \geq -1$

19. Which graph represents the solution set of the inequality $2x - 5 > 7$?

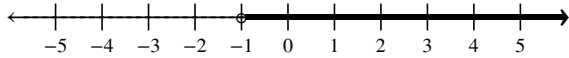


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20. Which graph represents the solution of the inequality $-3x + 1 \leq 10$?

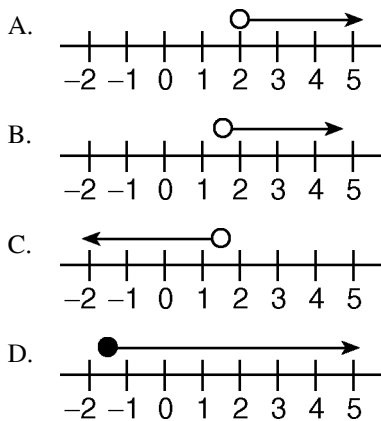


21. Which inequality is represented by the graph?

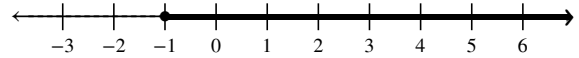


- A. $x > -1$ B. $x < -1$
 C. $x \geq -1$ D. $x \leq -1$

22. Which graph best represents the solution set for the inequality $x > \sqrt{2}$?

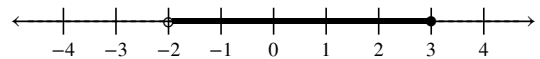


23. Which inequality is shown on the accompanying graph?



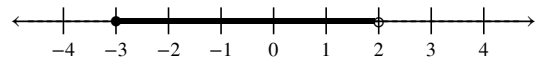
- A. $x < -1$ B. $x \leq -1$
 C. $x > -1$ D. $x \geq -1$

24. Which inequality is represented by the accompanying graph?



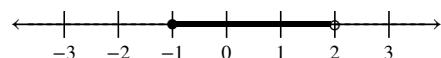
- A. $-2 < x \leq 3$ B. $-2 \leq x \leq 3$
 C. $-2 \leq x < 3$ D. $-2 < x < 3$

25. Which open sentence is represented by the graph?



- A. $-3 < x < 2$ B. $-3 \leq x < 2$
 C. $-3 \leq x \leq 2$ D. $-3 < x \leq 2$

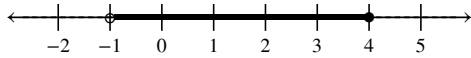
26. Which inequality is represented by the graph?



- A. $-1 < x < 2$ B. $-1 \leq x < 2$
 C. $-1 < x \leq 2$ D. $-1 \leq x \leq 2$

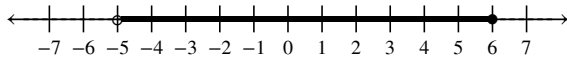
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27. Which inequality is represented by the accompanying graph?



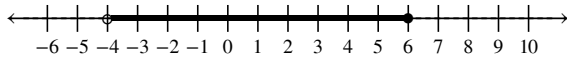
- A. $-1 \leq x \leq 4$ B. $-1 < x < 4$
 C. $-1 < x \leq 4$ D. $-1 \leq x < 4$

28. Which inequality is represented by the graph?



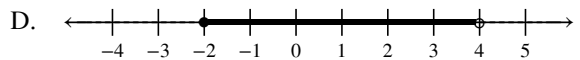
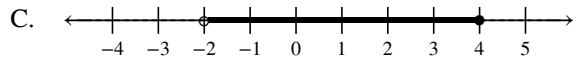
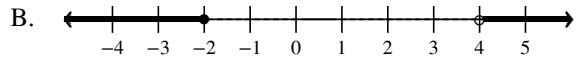
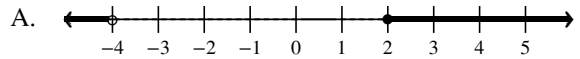
- A. $-5 < x < 6$ B. $-5 \leq x \leq 6$
 C. $-5 \leq x < 6$ D. $-5 < x \leq 6$

29. Which inequality is represented by the graph?

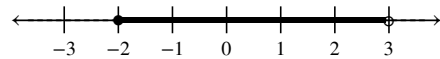


- A. $-4 \leq x \leq 6$ B. $-4 < x < 6$
 C. $-4 \leq x < 6$ D. $-4 < x \leq 6$

30. Which graph shows the solution set of $-2 \leq x < 4$?

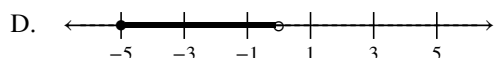
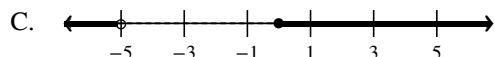
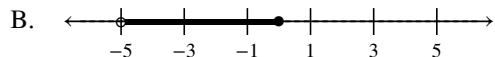
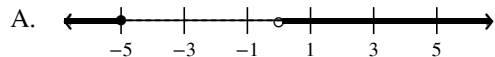


31. Which inequality is represented by the accompanying graph?



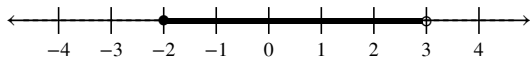
- A. $-2 \leq x < 3$ B. $-2 \leq x \leq 3$
 C. $2 < x < 3$ D. $-2 < x \leq 3$

32. Which graph represents the open sentence $-5 \leq x < 0$?



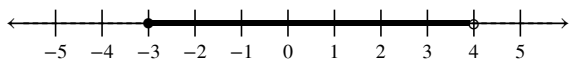
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33. Which inequality is represented in the graph?



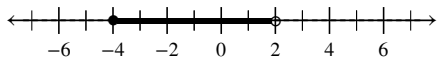
- A. $-2 < x < 3$ B. $-2 \leq x < 3$
 C. $-2 \leq x \leq 3$ D. $-2 < x \leq 3$

34. Which inequality is represented by the graph?



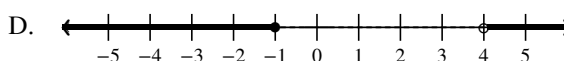
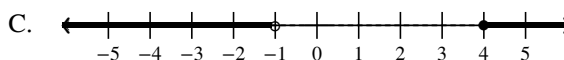
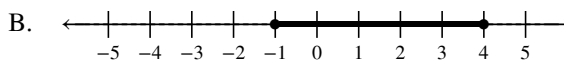
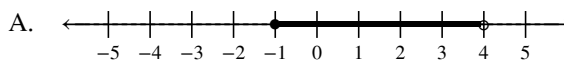
- A. $-3 < x \leq 4$ B. $-3 < x < 4$
 C. $-3 \leq x \leq 4$ D. $-3 \leq x < 4$

35. Which inequality is represented in the accompanying graph?

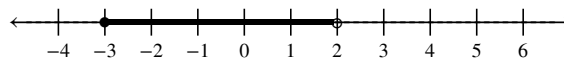


- A. $-4 \leq x \leq 2$ B. $-4 < x < 2$
 C. $-4 < x \leq 2$ D. $-4 \leq x < 2$

36. Which graph represents the inequality $-1 \leq x < 4$?

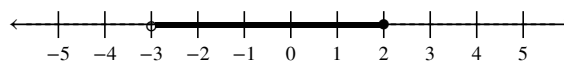


37. Which expression is represented in the graph shown?



- A. $-3 \leq x \leq 2$ B. $-3 \leq x < 2$
 C. $-3 < x \leq 2$ D. $-3 < x < 2$

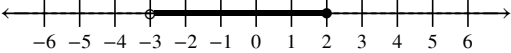
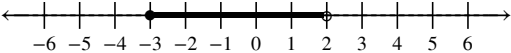
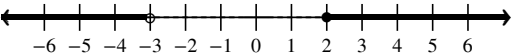
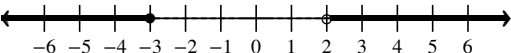
38. Which inequality is represented by the graph?



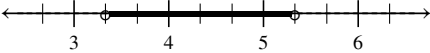
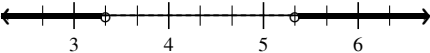
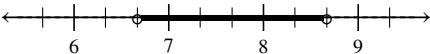
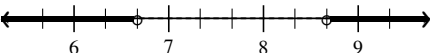
- A. $-3 < x < 2$ B. $-3 \leq x < 2$
 C. $-3 < x \leq 2$ D. $-3 \leq x \leq 2$

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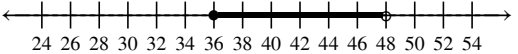
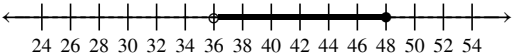
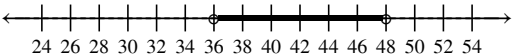
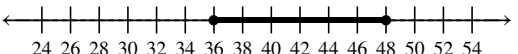
39. Which graph represents the inequality $-3 < x \leq 2$?

- A. 
- B. 
- C. 
- D. 

40. What is the graph of the solution set of $15 < 3x + 5 < 21$?

- A. 
- B. 
- C. 
- D. 

41. In order to be admitted for a certain ride at an amusement park, a child must be greater than or equal to 36 inches tall and less than 48 inches tall. Which graph represents these conditions?

- A. 
- B. 
- C. 
- D. 

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- | | |
|-----------------------|-----------------------|
| 1.
Answer: C | 21.
Answer: A |
| 2.
Answer: B | 22.
Answer: B |
| 3.
Answer: C | 23.
Answer: D |
| 4.
Answer: A | 24.
Answer: A |
| 5.
Answer: 2 | 25.
Answer: B |
| 6.
Answer: B | 26.
Answer: B |
| 7.
Answer: D | 27.
Answer: C |
| 8.
Answer: A | 28.
Answer: D |
| 9.
Answer: D | 29.
Answer: D |
| 10.
Answer: C | 30.
Answer: D |
| 11.
Answer: B | 31.
Answer: A |
| 12.
Answer: A | 32.
Answer: D |
| 13.
Answer: A | 33.
Answer: B |
| 14.
Answer: A | 34.
Answer: D |
| 15.
Answer: C | 35.
Answer: D |
| 16.
Answer: C | 36.
Answer: A |
| 17.
Answer: A | 37.
Answer: B |
| 18.
Answer: C | 38.
Answer: C |
| 19.
Answer: D | 39.
Answer: A |
| 20.
Answer: D | 40.
Answer: A |
| | 41.
Answer: A |