**Unit 4 Test-Inequalities** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| 1. Which number is a solution to the inequality below? **x > 4** A. 1 B. 2 C. 4 D. 5 | 2. Which number is NOT a solution to the inequality below? **x < 8**1. 6 B. 7

 C. 8 D. 9 |
| 3. Which statement describes “a number more than 22”?1. x < 22 B. x > 22
2. x < 22 D. x > 22
 | 4. Which statement describes “ a number less than or equal to 43”?1. x < 43 B. x > 43

C. x < 43 D. x > 43 |
| 5. Which statement describes “ a number no more than 17”? A. x < 17 B. x > 17C. x < 17 D. x > 17   | 6. Which statement describes “at least 32”?1. x < 32 B. x > 32

 C. x < 32 D. x > 32  |
| 7. Which number is a solution to x + 4 > 12 1. 3 B. 5

 C. 7 D. 9 | 8. Which number is **NOT** a solution to x – 3 < 101. 7 B. 8
2. 10 D. 14
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| 9. Which number is a solution to  3x > 121. 4 B. 5
2. 2 D. 3
 | 10. Which number is **NOT** a solution to  2x < 101. 3 B. 4
2. 5 D. 6
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|  11. Which inequality matches the graph below?  | 12. Which inequality matches the graph below? |
| 13. Which inequality matches the graph below?Number Line1. x > 3 b. x > 3
2. x ≤ 3 d. x ≥ 3
 | 14. Which inequality matches the graph below?Number Line1. n < 0 b. n ≤ 0

c. n ≥ 0 d. n > 0 |
| 15. Solve x + 11 > 19 | 16. Graph the solution to the inequality from question #15.Number Line |
| 17. Solve x – 3 < 5 | 18. Graph the solution to the inequality from question #17.Number Line |
| 19. Solve 3x < 12 | 20. Graph the solution to the inequality from question #19.Number Line |
| 21. Solve $ \frac{x}{4}$ > 2 | 22. Graph the solution to the inequality from question #21.Number Line |
| 23. Write an inequality for this statement “x is less than or equal to 7”. | 24. Write an inequality for this statement  “x is greater than -9” |

25. Describe the difference between an open and a closed circle when graphing an inequality.

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