

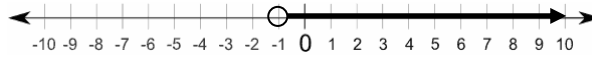
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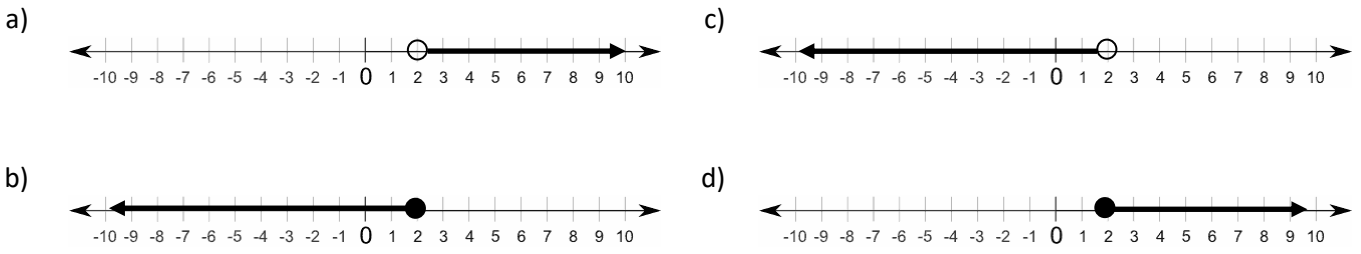
Answer the following questions about inequalities.

1. What inequality is represented by the graph below:

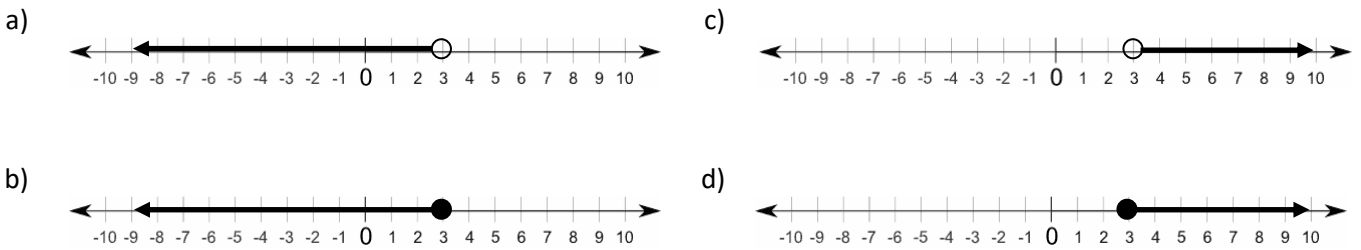


- a) $x \leq -1$ b) $x > -1$ c) $x < -1$ d) $x \geq -1$

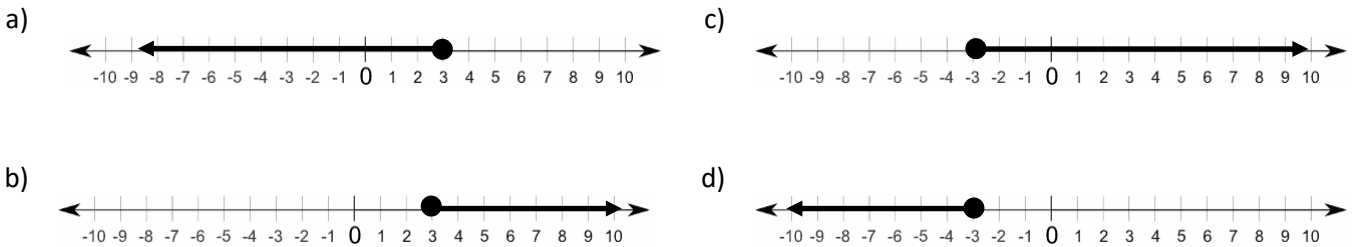
2. Which one of the following graphs represents the solution set of $x \geq 2$?



3. Which one of the following graphs represents the solution of the inequality $2x + 3 > 9$?



4. Which one of the following graphs represents the solution of the inequality $-3x + 1 \leq 10$?



5. What inequality is the solution of $x + 78 \geq 14$

- a) $x \geq 92$ b) $x \geq -64$ c) $x \geq 64$ d) $x \leq -92$

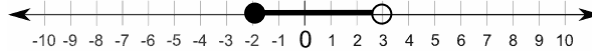
6. The smallest whole number that satisfies the inequality $3x - 1 > 2$ is

- a) 2 b) 0 c) 3 d) 1

7. Which one of the following numbers is not a member of the solution set of $5x \leq 23$

- a) 4.7 b) 4.6 c) 0 d) -4.7

8. What inequality is represented in the graph below?



- a) $-2 < x < 3$ b) $-2 < x \leq 3$ c) $-2 \leq x < 3$ d) $-2 \leq x \leq 3$

9. If y is an integer, what is the solution set of $-3 \leq y < 2$?

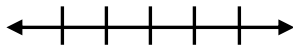
- a) $\{-2, -1, 0, 1, 2\}$ c) $\{-3, -2, -1\}$
 b) $\{-3, -2, -1, 0, 1\}$ d) $\{0, 1\}$

10. What inequality is equivalent to $2x - 1 > 5$?

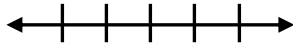
- a) $x > 6$ b) $x > 3$ c) $x < 3$ d) $x > 2$

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 SOLVE the inequalities on a separate sheet of paper but graph each inequality on this page. Remember, if cross multiplying, keep your answer to the cross-multiplication UNDER the numerator you used.

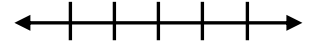
11.  $-3(p + 1) \leq -18$



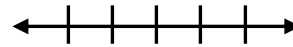
12.  $-4(-4 + x) > 56$



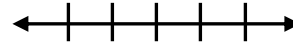
13.  $-11x - 4 > -15$



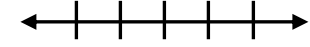
14.  $-7x + 7 \leq -56$



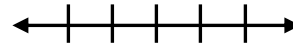
15.  $-4(3 + n) > -32$



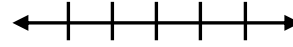
16.  $-132 > 12(n + 9)$



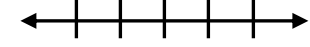
17.  $-3(r - 4) \geq 0$



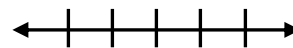
18.  $-3(p - 7) \geq 21$



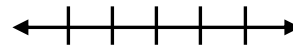
19.  $-90 \geq -5(k - 3)$



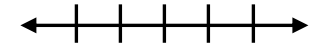
20.  $-1 \leq \frac{v-2}{21}$



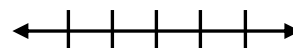
21.  $\frac{-9+a}{15} > 1$



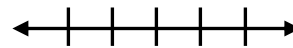
22.  $-1 > \frac{12+x}{4}$



23.  $\frac{-11+n}{15} < -1$



24.  $7n - 1 > -169$



25.  $84 \geq -7(v - 9)$

