

Study Guide

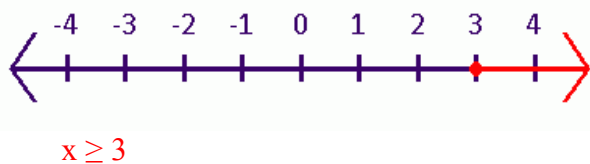
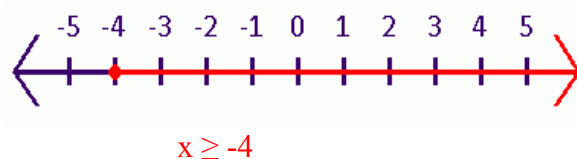
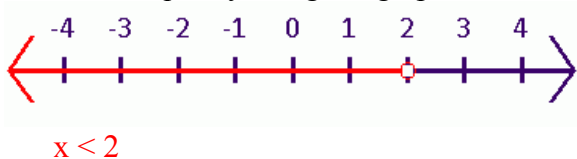
Unit 2: Inequalities

Name: _____

Graph the inequality:



Write the inequality using the graph:



Solve & Describe the solution set in words (ex. $x < 3$: "All real numbers less than 3")

- $4 \leq n + 2$ All real numbers greater than or equal to 2
- $6 + y < 10$ All real numbers less than 4
- $-4x > 12$ All real numbers less than -3

Solve and graph (Use the graphs on the back):

- $m + 4 < -3$ $m < -7$
- $g - 5 > 6$ $g > 11$
- $-2t > -8$ $t < 4$
- $\frac{b}{2} \leq 3$ $b \leq 6$
- $4(x + 2) > 6$ $x > 1/2$
- $2x + 5 \geq 2$ $x \geq -3/2$
- $4c - 7 > 5$ $c > 3$
- $2x + 7 \geq x + x + 1$ All real numbers
- $-40 + 16 \leq 3m + 6$ $-10 \leq m$ OR $m \geq -10$
- $2x > 4x - 6$ $x < 3$
- $1 + r > 3$ OR $r + 5 < 2$ $r > 2$ OR $r < -3$
- $-1 \leq x - 3 < 3$ $2 \leq x < 6$
- $t + 7 < 3$ OR $t - 1 > 4$ $t < 4$ OR $t > 5$
- $|x - 3| + 7 < 17$ $x < 13$ AND $x > -7$
- $6|x| > 36$ $x > 6$ OR $x < -6$

Write the compound inequality using the graph:

