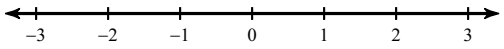
Math 8 Accelerated Name_____

Inequalities

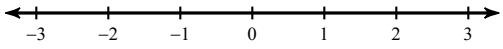
Date_____ Period____

Draw a graph for each inequality.

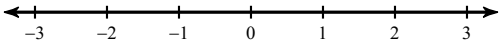
1) $x < 2\frac{1}{2}$



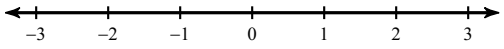
2) $-n \geq -\frac{1}{2}$



3) $\frac{1}{2} \leq m$

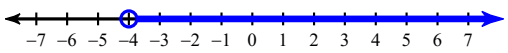


4) $-\frac{1}{2} < a$

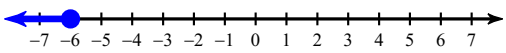


Write an inequality for each graph.

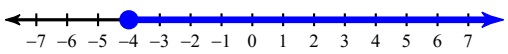
5)



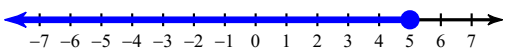
6)



7)



8)



Solve each inequality.

9) $-5(-7x - 1) \geq 3x + 37$

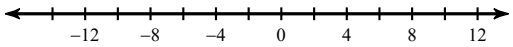
10) $-(m + 5) + 3m \leq -8m - 15$

11) $3 - 5m < 6(2m + 8) + 6$

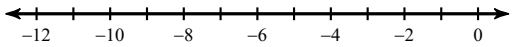
12) $8a - 28 \geq -6(1 + 2a) - 2a$

Solve each compound inequality and graph its solution.

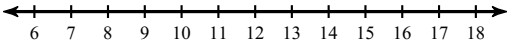
13) $-r - 7 < -14$ or $4r + 1 < -39$



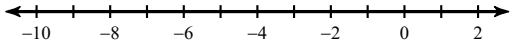
14) $3 \geq 10 + 7n > -60$



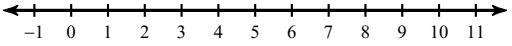
15) $6 + 4n > -26$ and $4n - 1 \geq 39$



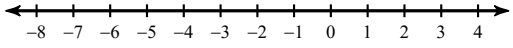
16) $5n - 7 \geq -52$ and $3 + 3n \geq -9$



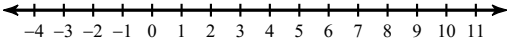
17) $23 < 9p + 5 \leq 41$



18) $7r + 7 \geq -7$ and $3r + 4 \leq 7$



19) $9n + 10 \geq -8$ and $2n + 4 < 22$



20) $5n + 2 \geq -13$ or $8n - 10 < -82$