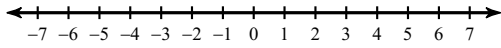


Intro to Modeling Linear Inequalities

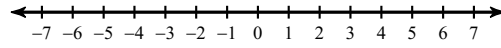
Date _____ Period _____

Draw a graph for each inequality.

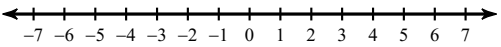
1) $p < -2$



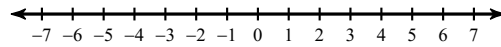
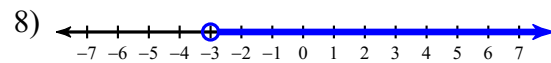
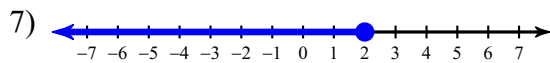
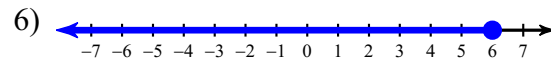
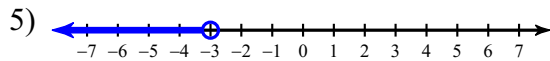
2) $a \leq 3$



3) $m > 5$



4) $n < 5$

**Write an inequality for each graph.****Solve each inequality.**

9) $20x \geq 140$

10) $-4 > \frac{a}{19}$

11) $9 \geq n - 1$

12) $-17 + m \geq -16$

13) $-8 + \frac{v}{18} \geq -9$

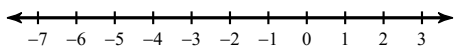
14) $20 > 5(b - 10)$

$$15) -5 + \frac{b}{10} \geq -6$$

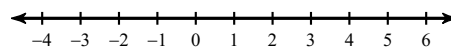
$$16) 2 \leq 7 + \frac{n}{3}$$

Solve each inequality and graph its solution.

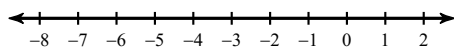
$$17) 8 \geq -5n + n$$



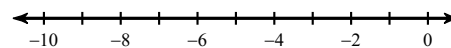
$$18) 5x - x > 16$$



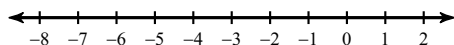
$$19) -6x - 5x > 11$$



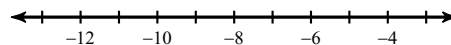
$$20) 16 < n - 5n$$



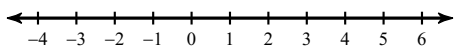
$$21) -2 > 5m + 2 + 1$$



$$22) -m - 2m \leq 18$$



$$23) 4 \geq 4 - a + 4$$



$$24) 7 \geq r + 2 + 6$$

