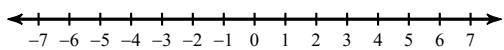


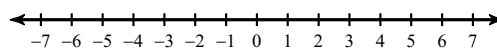
# Solving Inequalities

**Draw a graph for each inequality.**

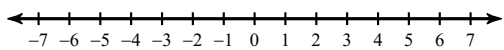
1)  $k \geq 4$



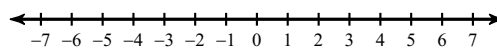
2)  $6 > x$



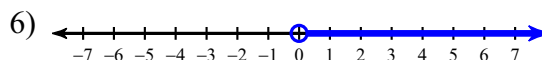
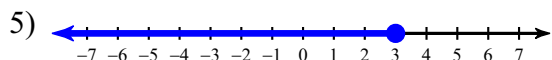
3)  $-2 \leq x$



4)  $n < -1$



**Write an inequality for each graph.**



**Write an inequality to model each situation.**

7) The restaurant can seat at most 172 people.

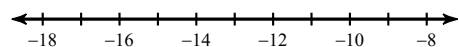
8) A person must be at least 35 years old to be elected President of the United States.

9) At least 475 students attended the orchestra Thursday night.

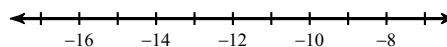
10) A law clerk has earned more than \$20,000 since being hired.

**Solve each inequality and graph its solution.**

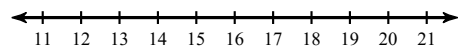
11)  $r + 6 < -7$



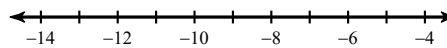
12)  $n - 7 \leq -18$



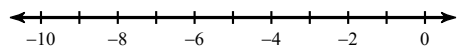
13)  $-4r > -56$



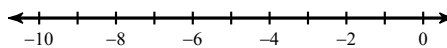
14)  $-8v \geq 80$



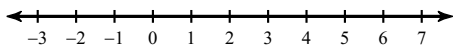
15)  $-24 \leq 4x$



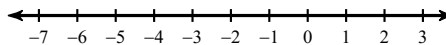
16)  $-52 < 13p$



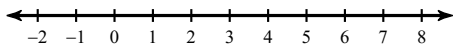
$$17) -3 - 4b \geq -3$$



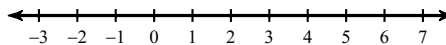
$$18) -2 > \frac{n-3}{4}$$



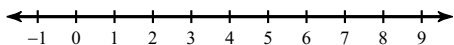
$$19) -1 - 3x \geq -1$$



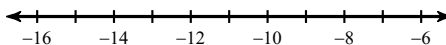
$$20) -5 \leq -5 - 2m$$



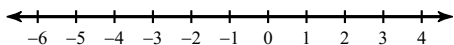
$$21) 4 > 3 + \frac{x}{4}$$



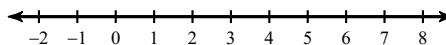
$$22) -5(x-4) \leq 65$$



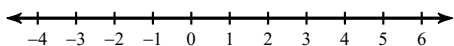
$$23) -6(1+5x) \geq -30 - 6x$$



$$24) -6 + n \leq 4(1-n)$$



$$25) -4 + 6m < -4m - 6(-6 + 5m)$$



$$26) 5(p+2) - 2 \leq -p - 10$$

