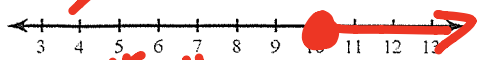


Two-Step Inequalities

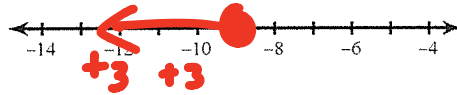
Solve each inequality and graph its solution.

1) $2x + 4 \geq 24$



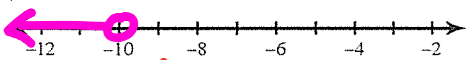
$$\begin{aligned} & \cancel{-4} - 4 \\ \hline 2x & \geq 20 \\ \frac{2x}{2} & \geq \frac{20}{2} \\ x & \geq 10 \end{aligned}$$

2) $\frac{m}{3} - 3 \leq -6$



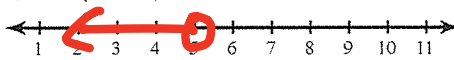
$$\begin{aligned} & \frac{m}{3} \leq -3(3) \\ \frac{m}{3} & \leq -9 \\ m & \leq -9 \end{aligned}$$

5) $-b - 2 > 8$



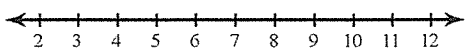
$$\begin{aligned} & \cancel{-2} + 2 \\ \hline -b & > 10 \\ \frac{-b}{-1} & < \frac{10}{-1} \\ b & < -10 \end{aligned}$$

6) $-4(3 + n) > -32$

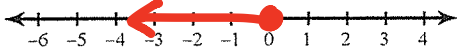


$$\begin{aligned} & \cancel{-12} - 4n > -32 \\ \hline & -4n > -20 \\ \frac{-4n}{-4} & > \frac{-20}{-4} \\ n & < 5 \end{aligned}$$

9) $-7x + 7 \leq -56$



10) $-3(p - 7) \geq 21$



$$\begin{aligned} & \cancel{-21} + 21 \geq 21 \\ \hline -3p & \geq 0 \\ \frac{-3p}{-3} & \leq \frac{0}{-3} \\ p & \leq 0 \end{aligned}$$

13) $-1 \leq \frac{v-2}{21}$ (21)

$$\begin{array}{r} -21 \leq v-2 \\ +2 \quad +2 \\ \hline \end{array}$$

$$\begin{array}{l} -19 \leq v \\ v \geq -19 \end{array}$$

17) $4 < 1 + \frac{n}{7}$

h) $3 < \frac{n}{7}$ (7)

$$\begin{array}{l} 21 < n \\ n > 21 \end{array}$$

21) $84 \geq -7(v-9)$

14) $-132 > 12(n+9)$

18) $-1 > \frac{12+x}{4}$

22) $\frac{-8+r}{2} > -8$