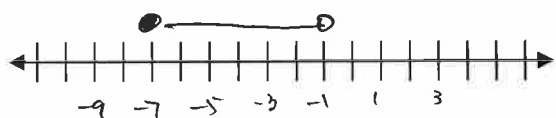


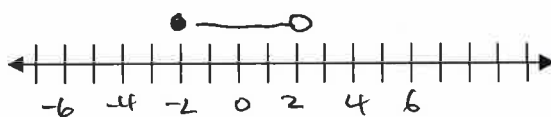
3-6 Compound Inequalities

Solve each compound inequality and graph the solutions.

1.
$$\begin{array}{c} -4 \leq x + 3 < 2 \\ -3 \quad -3 \quad -3 \\ \hline -7 \leq x < -1 \end{array}$$

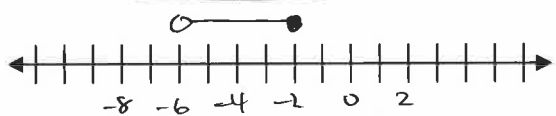


2.
$$\begin{array}{c} -1 \leq \frac{q-2}{4} < 0 \\ -4 \leq q-2 < 0 \\ -2 \leq q < 2 \end{array}$$

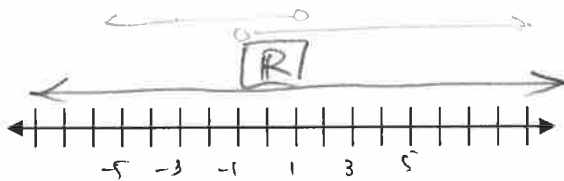


3.
$$\begin{array}{c} 3 - p \geq 5 \text{ and } p - 4 > -10 \\ -p \geq 2 \quad p > -6 \\ p \leq -2 \text{ and } p > -6 \end{array}$$

$$-6 < p \leq -2$$



4.
$$\begin{array}{c} r - 3 < -2 \text{ or } r - 4 > -5 \\ r < 1 \text{ or } r > -1 \end{array}$$



5. Write a compound inequality that could represent the graph.



$$-6 < x \leq 2$$