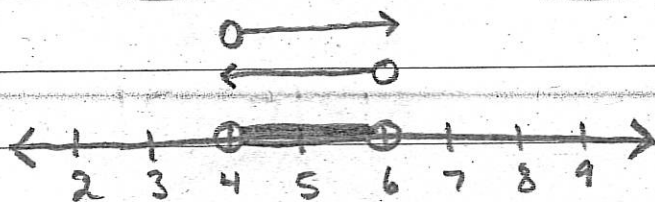


Compound Inequalities

- ① What are the solutions of $2 < \frac{3x-8}{2} < 5$? Graph the solutions.

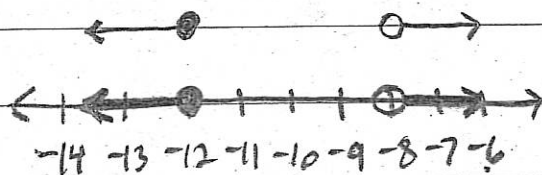
$$\begin{array}{l|l} 2 \cdot \frac{3x-8}{2} > 2 \cdot 2 & 2 \cdot \frac{3x-8}{2} < 2 \cdot 5 \\ \hline 3x-8 > 4 & 3x-8 < 10 \\ +8 \quad +8 & +8 \quad +8 \\ \hline 3x > 12 & 3x < 18 \\ \frac{3x}{3} > \frac{12}{3} & \frac{3x}{3} < \frac{18}{3} \\ \hline x > 4 & x < 6 \end{array}$$



Interval Notation

$(4, 6)$

- ② Graph the solutions of $x \leq -12$ or $x \geq -8$.



Interval Notation

$(-\infty, -12] \text{ or } [-8, \infty)$