











<u>Your turn</u>: Solve the inequalities (one step-rewrite) $2x + 2 \le 6$ $2(x - 3) \ge 8$ -14 < -5x + 6Draw the equivalent number line for each solution.



Solving inequalities requiring the Distributive Property Review: (Distributive Property of Multiplication "over" Addition $2(x + 4) \rightarrow 2x + 2(4) \rightarrow 2x + 8$ $2(x - 4) < 4x + 6 \qquad -14 < 2x$ $(\div 2) \qquad (\div 2)$ $2x - 8 < 4x + 6 \qquad (\div 2) \qquad (\div 2)$ $-2x \qquad -2x \qquad -7 < x$ $-8 < 2x + 6 \qquad x > -7$ -14 < 2x

Your turn: Solve the inequality $2x-6 \le 3-x$ $18+2x \ge 9x+4$ 5(x-2) < 5x+6Draw the equivalent number line for each solution.