

Name : _____

Solving Inequalities

Solve and graph the given inequalities on a number line.

① $4(2x - 3) \geq -8$



② $4x + 6 \leq 18$



③ $-10 < 6x + 2$



④ $4(x - 2) > 20$



⑤ $6x + 7 < 37$



⑥ $6 - 5x > -10$



⑦ $7 + 4x \geq 19$



⑧ $5y < 8 - 7$



⑨ $6x - 7 \leq 5$



⑩ $6x + 2 \leq 32$



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Solving Inequalities

Answers

① $4(2x - 3) \geq -8$

$$x \geq \frac{1}{2}$$



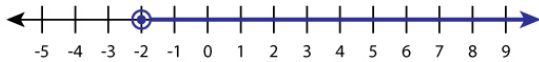
② $4x + 6 \leq 18$

$$x \leq 3$$



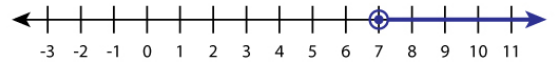
③ $-10 < 6x + 2$

$$x > -2$$



④ $4(x - 2) > 20$

$$x > 7$$



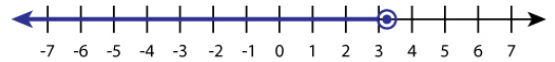
⑤ $6x + 7 < 37$

$$x < 5$$



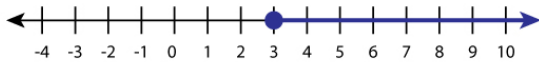
⑥ $6 - 5x > -10$

$$x < \frac{16}{5}$$



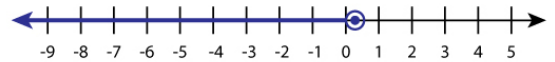
⑦ $7 + 4x \geq 19$

$$x \geq 3$$



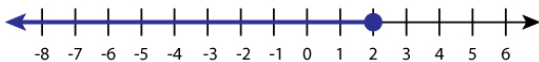
⑧ $5y < 8 - 7$

$$y < \frac{1}{5}$$



⑨ $6x - 7 \leq 5$

$$x \leq 2$$



⑩ $6x + 2 \leq 32$

$$x \leq 5$$

