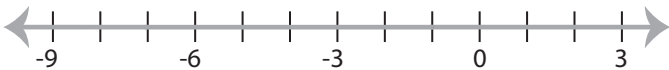


## Solving & Graphing Inequalities

Multi-step: S1

Solve each problem and graph the solutions.

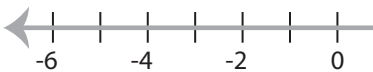
1)  $-6 < \frac{2x - 4}{3} < -2$



2)  $2(5x - 13) \leq 4$  or  $72 \geq 3(2x + 6)$



3)  $\frac{3x + 4}{2} > -1$  and  $5 > 2x - 1$



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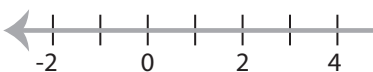
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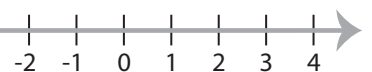
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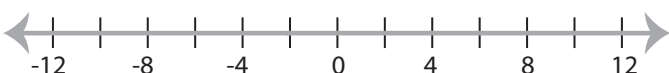
5)  $3(2x - 15) \geq -9$  or  $-2x + 1 > 3$



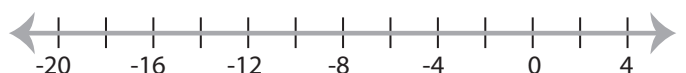
6)  $5 > 2x - 1$  and  $2(-9 - 8x) \geq 30$



7)  $-3 < \frac{x}{2} + x$  and  $42 > 2(6x + 9)$



8)  $2(3x + 28) < -16$  or  $\frac{5x - 31}{7} \geq -3$



## Solving & Graphing Inequalities

Multi-step: S1

Solve each problem and graph the solutions.

1)  $-6 < \frac{2x-4}{3} < -2$

$$-7 < x < -1$$



2)  $2(5x-13) \leq 4$  or  $72 \geq 3(2x+6)$

$$x \leq 9$$



3)  $\frac{3x+4}{2} > -1$  and  $5 > 2x-1$

$$-2 < x < 1$$



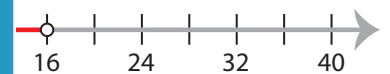
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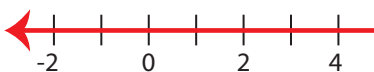
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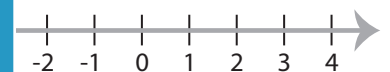


5)  $3(2x-15) \geq -9$  or  $-2x+1 \geq 1$

$$x \leq 5 \text{ or } x \geq 6$$

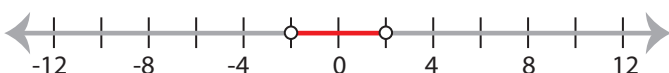


6)  $5 > 2x-1$  and  $2(-9-8x) \geq 30$



7)  $-3 < \frac{x}{2} + x$  and  $42 > 2(6x+9)$

$$-2 < x < 2$$



8)  $2(3x+28) < -16$  or  $\frac{5x-31}{7} \geq -3$

$$x < -12 \text{ or } x \geq 2$$

