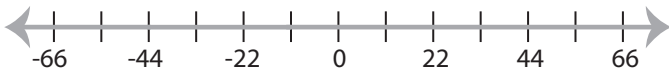


## Solving & Graphing Inequalities

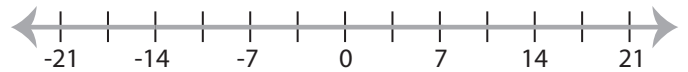
Two-step: S3

Solve each problem and graph the solutions.

1)  $\frac{x-8}{13} > -4$  and  $3x + 4 < -29$



2)  $-2x - 17 > 11$  or  $19 \leq 5x - 16$



3)  $7x + 15 < -6$  or  $-1 < 2x - 3$



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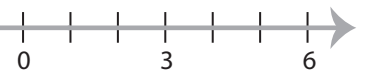
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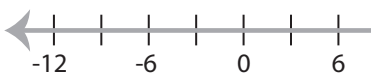
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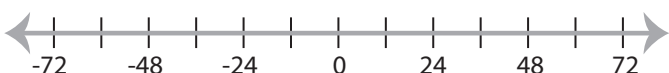
5)  $4 > \frac{x+2}{5}$  and  $-3x - 2 > 2$



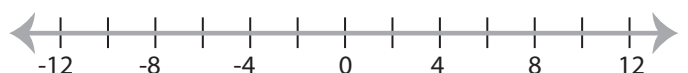
$2 \leq \frac{x-10}{9}$



7)  $-2 < 1 + \frac{x}{4} \leq 7$



8)  $5x + 14 < -6$  and  $4x - 7 \leq 9$



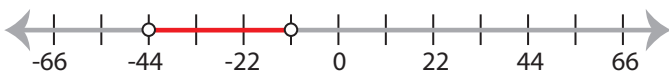
## Solving & Graphing Inequalities

Two-step: S3

Solve each problem and graph the solutions.

1)  $\frac{x-8}{13} > -4$  and  $3x + 4 < -29$

$$-44 < x < -11$$



2)  $-2x - 17 > 11$  or  $19 \leq 5x - 16$

$$x < -14 \text{ or } x \geq 7$$



3)  $7x + 15 < -6$  or  $-1 \leq x$

$$x \leq 1$$



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$$2 \leq \frac{x-10}{9}$$



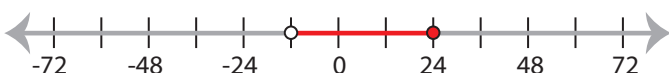
5)  $4 > \frac{x+2}{5}$  and  $-3x \leq 18$

$$-9 \leq x < 18$$



7)  $-2 < 1 + \frac{x}{4} \leq 7$

$$-12 < x \leq 24$$



8)  $5x + 14 < -6$  and  $4x - 7 \leq 9$

$$x < -4$$

