


## Solving Inequalities

Ex: ①  $\frac{6x}{6} < \frac{30}{6}$   $x < 5$  

②  $\frac{-5x}{-5} > \frac{25}{-5}$   $x < -5$  

③  $7x - 5 > 3x + 4$

$-3x \quad -3x$

$4x - 5 > 4$

$+5 \quad +5$

$\frac{4x}{4} > \frac{9}{4}$

$x > \frac{9}{4}$  

④  $3x - 2(x - 5) < 2(x + 4)$

$3x - 2x + 10 < 2x + 8$

$x + 10 < 2x + 8$

$-2x \quad -2x$

$-x + 10 < 8$

$-10 \quad -10$

$-x < -2$

$\frac{-x}{-1} > \frac{-2}{-1}$

$x > 2$  

$x + 10 < 2x + 8$

$-x \quad -x$

$10 < x + 8$

$-8 \quad -8$

$2 < x$

$x > 2$

When solving an inequality change the inequality sign if you divide or multiply by a negative # to solve!!!

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