

**graph of an inequality** - a number line that shows the solution to an inequality, since there are infinite solutions

Two steps:

1. choose open or closed circle at first point of solution



$$\begin{array}{l} X < \# \\ X > \# \end{array}$$



$$\begin{array}{l} X \leq \# \\ X \geq \# \end{array}$$

2. choose to shade left or right



$$X < \#$$

OR

$$\# > X$$



$$X > \#$$

OR

$$\# < X$$

## Solve and Graph each Inequ

**Ex 1]**  $4x + 6 < 1$

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## Solve and Graph each Inequ

Ex 2,  $2x - 3 - 8 \geq 21$

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## Solve and Graph each Inequ

**Ex 3**  $7(2x - 4) - 12x >$

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SOLVE

GRAPH

$$0.5X + 40 < 50$$



$$10 - 1.5X \geq 20$$



$$\frac{X}{2} + 2.6 > 8.1$$

