

Inequality symbols

Used to compare 2 non-equal values

Symbol

<</p>

□ >

□ ≤

□ ≥

Read as

" is less than"

" is greater than"

" is less than or equal to"

" is greater than or equal to"

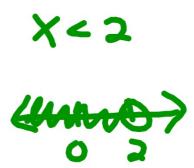
Solving Inequalities

- Steps for solving:
 Perform opposite
 - If you multiply or divide by a negative number, you must FLIP the inequality sign
 - Graph the solution on a number line

Examples:

$$\Box$$
 1. $4x > 8$

2.



Examples:

$$\begin{array}{c} -3. & -2x \leq 8 \\ \times & -4. \end{array}$$

$$-3x \ge -9$$

Examples

$$\equiv 6. \frac{x}{5} > 4.3$$

Examples

$$= 7. \frac{x}{-2} < 3.$$

$$| 8. \frac{x}{4} > -1$$

On your own

- □ 9. \3x < 18
- - (defeat)

- □ 10. 2x < 0 × < 0
- $|\mathbf{1}| \frac{x}{5} > -3$
 - (-12 o

Classwork

□ Blue book Page 173 # 1-16