

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

- The solutions to an inequality is a range of numbers (is not just a single number)
- □ Steps for solving:
 - □ Perform opposite information to solve for the variable
 - Draw a number line and label the key points
 - Mark the appropriate dot (open or closed)
 - Shade in the correct region

Examples:

$$-1. \quad x+3>3$$

$$\begin{array}{cccc}
x-2 < 4 \\
+1 & +2
\end{array}$$

$$X < 6$$

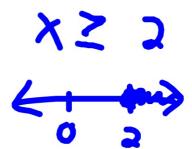
Examples:





4.

$$x-\beta \geq -1$$



Examples

- 3 U

- □ 6. x + 5 > 1
 - -4 0

On your own

- □ 7. x 12 >-3
- 9. x-3<-2 x<-2 x<-2

□ 8. x-/< 0

x < |

√

10. x+1 > 9

X > 7

Classwork

□ Blue book Page 171 # 1-10