

Addition Property of Inequality

Words When you add the same number to each side of an inequality, the inequality remains true.

Numbers $3 < 5$
 $\underline{+2} \quad \underline{+2}$
 $5 < 7$

Algebra $x - 4 > 5$
 $\underline{+4} \quad \underline{+4}$
 $x > 9$

Graph



Subtraction Property of Inequality

Words When you subtract the same number from each side of an inequality, the inequality remains true.

Numbers $3 < 5$
 $\underline{-2} \quad \underline{-2}$
 $1 < 3$

Algebra $x + 4 > 5$
 $\underline{-4} \quad \underline{-4}$
 $x > 1$

Graph



These properties are also true for \leq and \geq .