

Inequality

For a, b and c are real number, i.e. negative, zero or positive

Addition Properties of Inequality

If $a < b$, then $a + c < b + c$

If $a > b$, then $a + c > b + c$

Subtraction Properties of Inequality

If $a < b$, then $a - c < b - c$

If $a > b$, then $a - c > b - c$

Example:

$$3 < 5$$

$$3 + 4 < 5 + 4$$

$$7 < 9$$

$$5 > 3$$

$$5 - 1 > 3 - 1$$

$$4 > 2$$