property of equality		property of INequality
If a=b, then a+c=b+c	**Addition**	If a>b then a+c>b+c
If a=b, then a-c=b-c	**Subtraction**	If a > b then a-c > b-c
If a=b, then a*c=b*c	**Multiplication**	If a > b & c > 0 then ac > bc
If a > b & c ≠ 0 then $\frac{a}{c} = \frac{b}{c}$	**Division**	If a > b & c > 0 then $\frac{a}{c} > \frac{b}{c}$
If a = b, then a can substitute b in any expression	**Substitution**	If a = b, then a can substitute b in any inequality
If a = b & b = c then a = c	**Transitive**	If a > b & b > c then a > c

Whole is greater than its parts property
If c = a + b, and b > 0, then c > a.