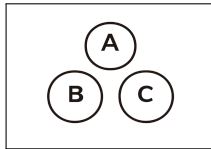


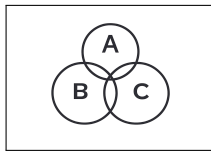
4

Basic Properties and Facts Properties of Inequalities

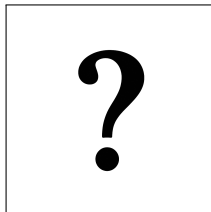
A



$$3 < 4 \rightarrow (3 + c) < (4 + c) \wedge (3 - c) < (4 - c)$$



$$a < b \rightarrow (a + c) < (b + c) \wedge (a - c) < (b - c)$$



$$a = 1$$

$$b = 2$$

$$c = 3$$

$$a < b \rightarrow ?$$

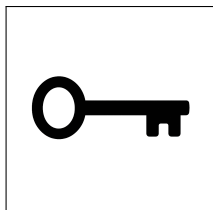
$$(a + c) < (b + c) \rightarrow ?$$

$$(a - c) < (b - c) \rightarrow ?$$

4

Basic Properties and Facts Properties of Inequalities

A



$$a = 1$$

$$b = 2$$

$$c = 3$$

$$a < b \rightarrow \text{thumbs up}$$

$$(a + c) < (b + c) \rightarrow \text{thumbs up}$$

$$(a - c) < (b - c) \rightarrow \text{thumbs up}$$