

Team Name: \_\_\_\_\_

Team Members: \_\_\_\_\_

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## Inequality Challenge

Use the true inequality below for the entire challenge.

$$3 < 6$$

1) Add 4 to each side of the inequality.

a. What is the new inequality?

b. Is the less than inequality symbol still true?

2) Subtract 6 from each side of the inequality.

a. What is the new inequality?

b. Is the less than inequality symbol still true?

3) Multiply each side of the inequality by 5.

a. What is the new inequality?

b. Is the less than inequality symbol still true?

4) Divide each side of the inequality by 2.

a. What is the new inequality?

b. Is the less than inequality symbol still true?

5) **Challenge Piece**: Is/Are there ANY operation(s) that would cause the less than inequality symbol to NOT be true? Explain.