

# EXTRA PRACTICE - Exercises

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## Unit I – The Structure of Mathematics Part D – Further Investigation of Operation Symbols Lesson 3 – Properties of Inequality

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In each of the following, perform the indicated operations on the given inequality one at a time, each time indicating what the resulting sentence is.

1. For  $6 - 25 > 3$  :

a. Mult.  $^{-4}$

b. Mult.  $^{+1}$   
 $3$

2. For  $7 + 5 < 18 - 5$

a. Add  $^{+5}$

b. Mult.  $^{-1}$   
 $3$

3.  $\frac{4}{5} < 3$

a. Mult.  $^{-5}$

b. Add  $^{+4}$

4.  $\frac{13}{6} > \frac{5}{4}$

a. Mult.  $^{+1}$   
 $2$

b. Mult.  $^{-24}$

5.  $^{-5} 4 < ^{-5} 3$

a. Mult.  $^{+1}$   
 $5$

b. Mult.  $^{-1}$

6.  $20 > ^{-3} 6$

a. Mult.  $^{+1}$   
 $2$

b. Mult.  $^{+1}$   
 $5$

7.  $10 + 3 > 10 + 2$

a. Add  $^{-3}$

b. Mult.  $^{-2}$

8.  $\frac{-12}{5} < \frac{32}{7}$

a. Mult.  $^{-5}$

b. Mult.  $^{+7}$

9.  $\frac{2}{3}(5 + 4) < 10$

a. Mult.  $^{-3}$

b. Mult.  $^{+1}$   
 $2$

10.  $8 < 5(6 - 4)$

a. Mult.  $^{-1}$   
 $5$

b. Mult.  $^{-1}$

# EXTRA PRACTICE — Answer Key

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In each of the following, perform the indicated operations on the given inequality one at a time, each time indicating what the resulting sentence is.

1.

a.  $-600 < -60$

b.  $50 > 5$

2.

a.  $17 < 18$

b.  $\frac{-17}{3} > -6$

3.

a.  $-4 > -15$

b.  $\frac{24}{5} < 7$

4.

a.  $\frac{13}{12} > \frac{5}{8}$

b.  $-52 < -30$

5.

a.  $-4 < -3$

b.  $20 > 15$

6.

a.  $10 > -9$

b.  $4 > \frac{-18}{5}$

7.

a.  $10 > 9$

b.  $-26 < -24$

8.

a.  $12 > \frac{-160}{7}$

b.  $\frac{-84}{5} < 32$

9.

a.  $-18 > -30$

b.  $3 < 5$

10.

a.  $\frac{-8}{5} > \frac{-2}{1}$

b.  $-8 > -10$