

Name \_\_\_\_\_

Solving Inequalities

Date \_\_\_\_\_

**DID YOU HEAR ABOUT...**

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>
<b>K</b>	<b>L</b>	<b>M</b>	<b>N</b>	<b>O</b>

DIRECTIONS: Solve each inequality below on a separate sheet of paper. In the answer column, find the inequality that describes the solution set and notice the word next to it. Write this word in the box above that has the same letter as that next to the exercise. *KEEP WORKING AND YOU WILL HEAR ABOUT A COLLEGE EYE DEAL!!*

**EXERCISES**

- (A)**  $2(3x - 5) > 2x + 6$   
**(B)**  $8(2 + x) \leq 3x - 9$   
**(C)**  $-3(4x - 6) < 7 - x$   
**(D)**  $13x - 7(-2 + x) \geq 4x - 10$   
**(E)**  $5(-3x - 1) + 7 \leq -x + 30$   
**(F)**  $12 + 5x > 2(8x - 6) - 7x$   
**(G)**  $9x - 2x \geq 14 - 9(-x - 4)$   
**(H)**  $-4(3 - 5x) - 11x < 3x + 6$   
**(I)**  $10(x + 2) > -2(6 - 9x)$   
**(J)**  $7(2 + 2x) \geq 4(-x - 10)$   
**(K)**  $11 + 3(-8 + 5x) < 16x - 5$   
**(L)**  $-6(7x - 1) < -8x + 9(-3x - 4)$   
**(M)**  $-9x + 2(4x + 12) \leq 4(1 - 3x) - 13$   
**(N)**  $7(-x + 4) + 16 \geq 5x - (10x - 6) - 6$   
**(O)**  $12(2x + 3) - 3(8 + 7x) > 0$

**ANSWERS**

- $x < 6$  -- WHO  
 $x \leq -3$  -- OVER  
 $x < 4$  -- HAVE  
 $x \geq 22$  -- STUDENTS  
 $x \leq -5$  -- CROSS  
 $x \leq -2$  -- EYES  
 $x > 6$  -- CONTROL  
 $x > 4$  -- THE  
 $x < 1$  -- KNOW  
 $x < 3$  -- TO  
 $x \leq 22$  -- HIS  
 $x \geq -2$  -- PROFESSOR  
 $x \leq -25$  -- SEEMED  
 $x \geq -3$  -- ABSOLUTELY  
 $x \geq -25$  -- SUBJECT  
 $x > -8$  -- NO  
 $x > 1$  -- EYED  
 $x < -8$  -- HELP  
 $x > -4$  -- PUPILS  
 $x < -4$  -- TEACH  
 $x \geq -12$  -- COLLEGE