

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

Complete as many of the following problems as you can with your table. If your entire table finishes early, you may leave early or work on homework.

(1) Use interval notation to express the solution set and graph the set on a number line.

(a)  $5x + 3 > 23$

(c)  $6(x + 1) + 4 \geq 5x + 17$

(b)  $2x + 4 > 10$

(d)  $\frac{x}{3} - \frac{1}{12} \leq \frac{x}{4} + 1$

(2) Solve the compound inequalities and give your answer in interval notation:

(a)  $-3 \leq x - 2 \leq 5$

(b)  $5 < x + 5 < 8$

(c)  $7x - 9 > -23$  and  $5x + 8 < 23$

(d)  $-5x + 6 \geq 21$  or  $-7x - 5 < 9$