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Lessons 6.1, 6.2, and 6.3
Date: $\qquad$ Hour: $\qquad$
Skills Assessed:
I can graph linear inequalities in one variable and solve one-step linear inequalities. I can write, solve and graph compound inequalities.
I can solve multi-step linear inequalities and use them to model / solve real-life problems.

1) Sketch a graph of the inequality:

$$
x \leq 8
$$

1) $\qquad$
2) Solve the inequality and graph the solution.
$5 x<-25$
3) $\qquad$

Graph: $\qquad$
3) Solve the following inequality:

$$
10 x-12 \geq 3 x+16
$$

3) $\qquad$
4) Erica has scored 85 goals in her high school soccer career. She needs to score 97 to tie the school record for most goals scored. Let $\boldsymbol{x}$ represent the number of goals Erica needs to score to tie or beat the school record.
a) Write an inequality to find $x$ :
a) $\qquad$
b) What is the least number of goals Erica needs to score?
b) $\qquad$
c) Graph the solution.
c) $\qquad$
5) Write an inequality that describes the graph shown below.

6) Sketch a graph of the inequality below.
7) $\qquad$

$$
x>12 \text { or } x \leq 7
$$

7) Solve the following inequality and graph the solution. Show your work.
$\qquad$
8) 

$$
-2<-2 x+1 \leq 7
$$

Graph:
8) Consider the triangle below. Write a compound inequality that describes the possible lengths of the side of the triangle labeled $x$. Use the fact that the sum of any two sides of a triangle is greater than the length of the third side.

11.4
8) $\qquad$

