Week 9 questions Name _____

These questions are due by the end of the week. 10/10 points towards your assessment grade if you get them all right and have the math work on paper to back up your work.
You will receive zero points and fail the assignment if you are asked for your work on paper and can not produce that effort. Missing some part of the assignment will cause a loss of that percent of the overall assignment.
These weekly problems cannot be attempted a second time and the work must be turned in on time, not later in the day, not during remediation, and not the next day.
You should work on these problems throughout the week and use down time in class to work with your teams on the solution to these problems.

1. Given the universal set U = {days of the week} and T = {Tuesday, Thursday}, what is T' ?

2.

Standard A1.1.3.1.1

A compound inequality is shown below.

$$5 < 2 - 3y < 14$$

What is the solution of the compound inequality?

A. $-4 > y > -1$

B. $-4 < y < -1$

C. $1 > y > 4$

D. $1 < y < 4$

3.

Standard A1.1.3.1.3

A baseball team had $1,000 to spend on supplies. The team spent $185 on a new bat. New baseballs cost $4 each. The inequality $185 + 4b \leq 1{,}000$ can be used to determine the number of new baseballs (b) that the team can purchase. Which statement about the number of new baseballs that can be purchased is true?

A. The team can purchase 204 new baseballs.

B. The minimum number of new baseballs that can be purchased is 185.

C. The maximum number of new baseballs that can be purchased is 185.

D. The team can purchase 185 new baseballs, but this number is neither the maximum nor the minimum.

4.

Standard A1.1.3

David is solving problems with inequalities.

One of David's problems is to graph the solution set of an inequality.

A. Graph the solution set to the inequality $4x + 3 < 7x - 9$ on the number line below.