

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.

#### Chapter 1:

When is the absolute value of a difference equal to the difference of the absolute values? Explain.

#### Chapter 2:

A rental car company charges \$25.00 per day plus \$0.30 for every mile the car is driven. Dale rents a car while his own car is being repaired, and he only drives it to and from work each day. Dale drives 7 miles each way to and from work. Write an expression to represent Dale's cost of renting a car for  $d$  days.

Dale rents the car for 4 days. How much does Dale owe for the rental?

#### Chapter 3:

Solve the equation  $|3a - 1| - 4 = 13$

Chapter 4:

What values of  $x$  make both inequalities true?

$$3x < 4x + 6$$

$$2x + 1 < 15$$

Chapter 5:

What is an equation of the line perpendicular to  $y = -x - 2$  and through  $(-2, 4)$ ?