**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**CC Algebra**

**Inequality Word Problems**

**1.** Paul earns $25.00 per hour at his job. Each

 day he spends $10.00 for lunch. Today he

 wants to take home at least $215.00 after

 paying for his lunch. How many hours will he

 have to work to achieve his goal?

**2.** Sally rented a car for $45.00 a week plus

 $0.12 for each mile the car is driven. What is

 the greatest number of miles Sally can drive

 the car if she wishes to spend at most $105?

**3.** For what values of x is the area of the

 rectangle greater than the perimeter?

**4.** Two consecutive odd integers have a sum of

 more than 26. Find the two smallest odd

 integers that will make this true.

**5.** Sophia types 75 words per minute and is just starting to write a term paper. Patrick already has 510 words written and types at a speed of 60 words per minute. For what number of minutes will Sophia have more words typed than Patrick?

**6.** You rent a car and are offered 2 payment options. You can pay $25 a day plus $0.15 a mile (Option A) or you can pay $10 a day plus $0.40 a mile (Option B). For what amount of daily miles will Option A be the cheaper plan?

**7.** Members of the marching band are planning to sell programs at football games. The cost to print the programs is $150 plus $0.50 per program. They plan to sell each program for $2. How many programs must they sell in order to make a profit?