Name		
Pd	Date	

Part I: Carla's Fundraising Efforts

Carla belongs to a cheerleading squad. The cheerleaders need money to go travel to Las Vegas for a national competition. To raise funds, Carla will collect recyclable plastic bottles and soda cans and redeem them for money. Carla has been tracking her fund-raising progress. Let T(d) represent the amount of travel funds Carla has been able to raise by the end of d<sup>th</sup> day of the school year, where d = 1 represents the first day of school. The table below is a record that Carla has kept through the first few months of school.

d	<i>T(d)</i>	
15	15	
25	50	
30	250	
45	250	
50	350	
60	400	

- 1. What is the value of T(30) and what does it represent in context?
- 2. How much money did Carla raise in the first 45 days?
- 3. How long did it take Carla to earn her first \$50?
- 4. Carla was told that, by sharing rooms, the hotel cost would only be \$350! How long did it take Carla to earn the hotel money?

Part II: Solve the following equations. Show how you determined your answer.

5.  $\frac{c}{9} + 20 = 15$ 6. 2(3x-5) - x - 6 = 247. 7x - 13 = 4x - 21