Name:	Period:	Score:	
HW 6 1 HONOPS, Cropping Inor		//	

## HW 6-1 HONORS: Graphing Inequalities & Writing Equations

- 1. When you go to Little Caesar's to buy food for a family party, you find out they charge \$5 for each pizza and \$2 for an order of breadsticks. You spend \$50 on the food (before tax).
  - a. Write an equation to represent this situation.
  - b. List three different combinations of pizza and breadsticks you could have purchased.
- 2. You purchase a car for \$6000. The car depreciates in value by 8% each year. Write an equation to represent this situation.
- 3. You purchase movie tickets for a group to attend the first showing of a movie. It costs \$10 for each adult ticket and \$6.00 for each child ticket. You spent \$60 on the tickets (before tax).
  - a. Write an equation to represent this situation.
  - b. List three different combinations of child and adult tickets you could have purchased.
- **4.** Dave is going on a backpacking trip. He has packed 62 pounds of food for the trip in his backpack. To ensure he has enough food for the trip he is eating 3 pounds of food each day. Write an equation to represent this situation.
- 5. The city of Pythagoras started with a population of 34,000 people. The city was growing at a rate of 5% each year. Write an equation to represent this situation.

6. Becca is saving for a trip this summer. She starts a savings account with \$20. She earns \$5 per week in allowance that she plans on putting into the account. Write an equation to represent this situation.

Sketch a graph of the linear inequality.



