Math 1 **6.5 Linear Inequalities** Unit 3

**Linear Inequalities:** An inequality in two variables whose graph is a region of the coordinate plane that is bounded by a line. Each point in the region is a solution of the inequality.

**Identifying Solutions of a Linear Inequality**

Is the ordered pair a solution of 

1. (1, 2)
2. (-3, -7)

**Graphing an Inequality in Two Variables**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Inequality Type:** | **Less Than** | **Greater Than** | **Less Than or Equal To:** | **Greater Than or Equal To:** |
| **Line and Shade Type:** |  |  |  |  |

Graph the following inequalities.



1. 

**Graphing a Linear Inequality in One Variable**

What is the graph of each inequality in the coordinate plane?

1. 
2. 
3. 
4. 

**Rewriting to Graph an Inequality**

For a party, you can spend no more than $12 on nuts. Peanuts cost $2/lb. Cashews cost $4/lb. What are three possible combinations of peanuts and cashews you can buy?