***Intermediate Algebra (A) Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***1.3E Group Practice Class period 1 2 3 4 5***

***GRAPHING***CALCULATOR***GRAPHING***CALCULATOR***GRAPHING***CALCULATOR

1. TeeVee Electronics, Inc., makes console and wide-screen televisions. The equipment in the factory allows for making at most 450 console televisions and 200 wide-screen televisions in one month. It costs $600 per unit to make a console television and $900 per unit to make a wide screen television. During the month of November, the company can spend $360,000 to make these televisions. TeeVee makes $125 profit on console television and $200 on widescreens. How many console and wide-screen televisions should they make to maximize the profit?
2. ****Use the table on the left to organize the information (this is optional):
3. Constraints:

Number of Wide-Screen TVs

1. Graph the constraints to answer the following questions.
2. Objective:
3. Vertices

Number of Console TVs

**WORK SPACE**

1. Maximum Profit

 (x,y) Objective Function Value

1. # of Console Televisions
2. # of Wide-Screen Televisions

***1.3E Group Practice***

***GRAPHING***CALCULATOR***GRAPHING***CALCULATOR***GRAPHING***CALCULATOR

1. The Northern Wisconsin Paper Mill can convert wood pulp to either notebook paper or newsprint. The mill can produce at most 200 units of paper a day. At least 10 units of notebook paper and 80 units of newspaper are required daily by regular customers. The profit on a unit of notebook paper is $500 and the profit on a unit of newsprint is $350. How many notebook paper and newsprints should they make to maximize the profit?
2. ****Use the table on the left to organize the information (this is optional):
3. Constraints:

Units of Newspaper

1. Graph the constraints to answer the following questions.
2. Objective Function
3. Vertices of feasible region

Units of Notebook Paper

**WORK SPACE**

1. Maximum Profit

 (x,y) Objective Function Value

1. Units of Notebook Paper

1. Units of Newspaper