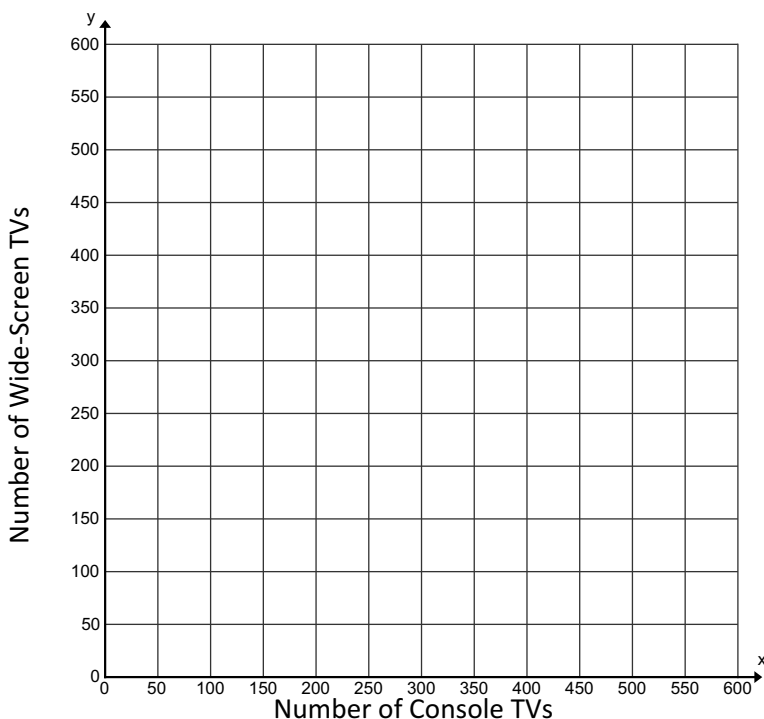


- 1) TeeVee Electronics, Inc., makes console and wide-screen televisions. The equipment in the factory allows for making at most 450 console televisions and 200 wide-screen televisions in one month. It costs \$600 per unit to make a console television and \$900 per unit to make a wide screen television. 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?


- a.) Use the table on the left to organize the information (this is optional):

- b.) Constraints:



- c.) Graph the constraints to answer the following questions.

- d.) Objective:

- e.) Vertices

- f.) Maximum Profit

- g.) # of Console Televisions

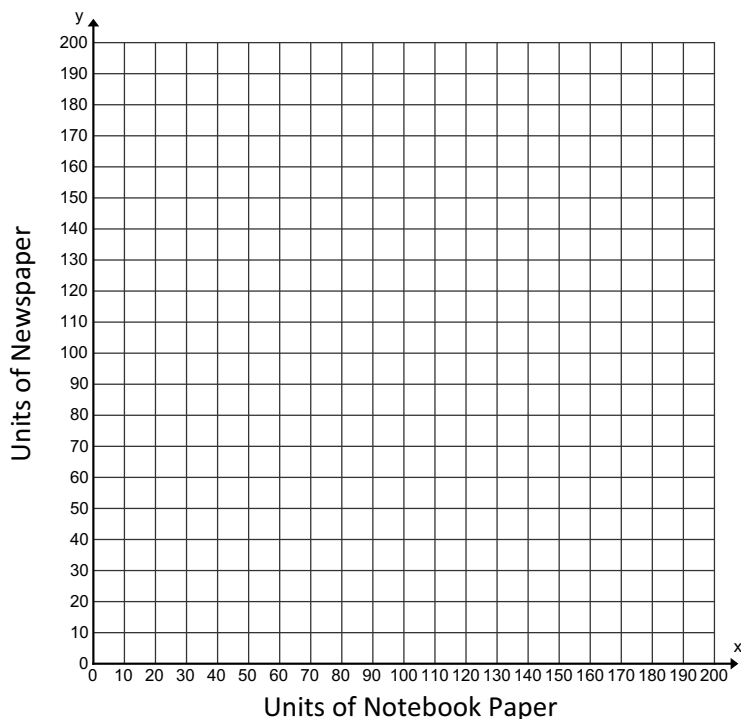
- h.) # of Wide-Screen Televisions

**WORK SPACE**

(x,y)	Objective Function	Value

### 1.3E Group Practice

- 2) 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?

WORK SPACE

(x,y)	Objective Function	Value

a.) Use the table on the left to organize the information (this is optional):

b.) Constraints:

c.) Graph the constraints to answer the following questions.

d.) Objective Function

e.) Vertices of feasible region

f.) Maximum Profit

g.) Units of Notebook Paper

h.) Units of Newspaper