The following information will be helpful to answer questions 5 and 6:

- A. There are 2 products: Car Batteries and Boat Batteries
- B. There are 2 sales regions: Southeast and Southwest
- C. There are 2 manufacturing divisions: Production and Assembly
- D. Sales Prices: Car Batteries-\$30.00; Boat Batteries-\$35.00
- E. There are 2 raw materials for each battery: Plastic and Electrodes
- F. Raw materials prices: Plastic-\$1.00; Electrodes-\$2.00
- G. Average Direct Labor Rates (per hour): Production-\$4.00; Assembly-\$3.00
- H. The Manufacturing overhead rates (based on Direct Labor) are Production \$2.00; Assembly \$1.00
- I. The order cost is \$15.00
- J. The annual carrying cost per unit of inventory is \$1.50
- K. Product Specification:

	Units of RM/Unit		Direct Labor Hours/Unit	
<u>Batteries</u>	Plastic	Electrodes	Production	Assembly
Auto	6	1	1.5	1
Boat	7	1.5	1.5	1

L. Planned Sales (units). Planned Sales (units) (Sales are 95 % cash. The balance of the sales is received in the following quarter. There is no bad debt).

<u>Batteries</u>	Southwest	Southeast
Auto	20,000	19,500
Boat	4,200	5,000

M. Inventory Levels (units) - Assume no work in process:

Item	Beginning	Ending	Estimated Costs (for	
			Inventory	
			Purposes)	
Auto	3,000	3,500	\$15.00	
Boat	1,200	1,000	\$20.00	
Plastic	2,100	1,100	\$ 1.00	
Electrodes	1,500	2,000	\$ 2.00	

N. Distribution and Administrative Expenses (Excluding Raw Materials and Direct Labor)

Cost	Distribution Adm	inistration
Salaries (Supervision)	\$62,415	\$16,510
Indirect Labor	\$ 7,350	\$ 4,900
Electricity	\$ 4,410	\$ 2,940
Insurance	\$ 900	\$ 600
Depreciation*	\$15,000	\$ 3,000
Property Taxes	\$ 1,200	\$ 900
Fixed Maintenance	\$30,000	\$ 3,000
Variable Maintenance	\$ 3,675	\$ 2,450
Total	\$124,950	\$34,300

^{*}Non-Cash Items

O. Additional Overheads:

	Marketing	\$33,450	
	Research and Development	\$ 3,300	
Р	Miscellaneous incomes	\$ 2100	

- Q. Beginning Cash \$33,000. Accounts receivable \$60,000
- R. Cash will be spent on Capital additions \$50,000, Dividends- \$20,000 Notes payable- \$75,000
- 5. The income tax rate is 50%.

Good Luck