

1. Given the following cost table, figure out the quantities shipped from each supply city to each demand city, so that the total production, transportation and facility cost is minimized and demands are met.
2. The firm currently has production facilities in each supply city. Management believes that they can save on the total production, transportation and facility cost if they shut down some of the plants. Please advise.

<i>Supply City</i>	<i>Demand City Production and Transportation Cost per 1000 Units</i>						Fixed Cost (\$)	Capacity
	Atlanta	Boston	Chicago	Denver	Omaha	Portland		
Baltimore	1,675	400	685	1,630	1,160	2,800	7,650	18
Cheyenne	1,460	1,940	970	100	495	1,200	3,500	24
Salt Lake	1,925	2,400	1,425	500	950	800	5,000	27
Memphis	380	1,355	543	1,045	665	2,321	4,100	22
Wichita	922	1,646	700	508	311	1,797	2,200	31
<i>Demand</i>	10	8	14	6	7	11		