

A manufacturer of refrigerators must ship at least 100 refrigerators to its West Coast warehouses. Each warehouse holds a maximum of 100 refrigerators. Warehouse A holds 25 refrigerators already, and Warehouse B has 20 on hand. It costs \$12 to ship a refrigerator to Warehouse A and \$10 to ship one to Warehouse B. Union rules require that at least 300 workers be hired. Shipping a refrigerator to Warehouse A requires 4 workers, while shipping to Warehouse B requires 2 workers. How many refrigerators should be shipped to each warehouse to minimize costs? What is the minimum cost?

1. Define the variables and give all constraints in terms of them.
2. Graph the feasible region.
3. Use algebra to find the coordinates of each corner point..
4. Make a table of cost at each corner point.
5. Write a sentence stating your conclusion.