

## Center of Gravity Method

- Finds location of single distribution center serving several destinations
- Used primarily for services
- Considers
  - Location of existing destinations
    - Example: Markets, retailers, etc.
  - Volume to be shipped
  - Shipping distance (or cost)
    - Shipping cost/distance is constant

## Center of Gravity Method Steps

- Place existing locations on a coordinate grid
  - Grid has arbitrary origin & scale
  - Maintains relative distances
- Calculate X & Y coordinates for 'center of gravity'
  - Gives location of distribution center
  - Minimizes transportation cost

## Center of Gravity Method



## Transportation Model

- Finds amount to be shipped from several sources to several destinations
- Used primarily for industrial locations
- Type of linear programming model
  - Objective: Minimize total production & shipping costs
  - Constraints
    - Production capacity at source (factory)
    - Demand requirement at destination

For further details ...

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