

7 airport network (airports 1,2,3,4,5,6,7)

For connecting network airport 4 is Hub

Trip Distance

| | FROM | | | | | | |
|----|------|---|---|---|---|---|---|
| TO | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | | 1 | 2 | 3 | 4 | 5 | 6 |
| 2 | 1 | | 1 | 2 | 3 | 4 | 5 |
| 3 | 2 | 1 | | 1 | 2 | 3 | 4 |
| 4 | 3 | 2 | 1 | | 1 | 2 | 3 |
| 5 | 4 | 3 | 2 | 1 | | 1 | 2 |
| 6 | 5 | 4 | 3 | 2 | 1 | | 1 |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | |

Trip Time

1 Unit Time = 1 Unit Distance

Connection Time at Hub = 1 Unit Time

DIRECT NETWORK Airports

7

| Origin | Origin Pax | Destination | Itinerary = Flights | Pax per Itinerary | Trip Distance | Trip Time | Arrival Displacement | Total Arrival Displacement |
|--------|------------|-------------|---------------------|-------------------|---------------|-----------|----------------------|----------------------------|
| 1 | 120 | 2 | 1-2 | 20 | 1 | 1 | 0 | 0 |
| | | 3 | 1-3 | 20 | 2 | 2 | 0 | 0 |
| | | 4 | 1-4 | 20 | 3 | 3 | 0 | 0 |
| | | 5 | 1-5 | 20 | 4 | 4 | 0 | 0 |
| | | 6 | 1-6 | 20 | 5 | 5 | 0 | 0 |
| | | 7 | 1-7 | 20 | 6 | 6 | 0 | 0 |
| | | 2 | 120 | 1 | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 3 | 120 | | | 1 | | | | |
| | | 2 | | | | | | |
| | | 4 | | | | | | |
| | | 5 | | | | | | |
| | | 6 | | | | | | |
| | | 7 | | | | | | |
| | | 4 | 120 | 1 | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 5 | 120 | | | 1 | | | | |
| | | 2 | | | | | | |
| | | 3 | | | | | | |

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|---|-----|---|--|--|--|--|--|
| | | 4 | | | | | |
| | | 6 | | | | | |
| | | 7 | | | | | |
| 6 | 120 | 1 | | | | | |
| | | 2 | | | | | |
| | | 3 | | | | | |
| | | 4 | | | | | |
| | | 5 | | | | | |
| | | 7 | | | | | |
| 7 | 120 | 1 | | | | | |
| | | 2 | | | | | |
| | | 3 | | | | | |
| | | 4 | | | | | |
| | | 5 | | | | | |
| | | 6 | | | | | |

840

| | |
|--|--|
| Total Passengers = | |
| Total Itineraries = | |
| Total Flights = | |
| Total Aircraft Required = | |
| Aircraft Size Required (Seats) = | |
| Total Flight Miles = | |
| Total Seats = | |
| Total Available Seat Miles = | |
| Total (Arrival) Displacement Time = | |
| Average Flight Distance = | |
| Average Trip Time = | |
| Max Simultaneous Arrivals/Departures = | |

CONNECTING NETWORK

Airports

7

| Origin | Origin Pax | Destination | Itinerary = Flights | Pax per Itinerary | Trip Distance (Seg 1) | Trip Distance (Seg 2) | Trip Time | Arrival Displacement | Total Arrival Displacement |
|--------|------------|-------------|---------------------|-------------------|-----------------------|-----------------------|-----------|----------------------|----------------------------|
| 1 | 120 | 4 | 1-4-2 | 20 | 3 | 2 | 6 | 1 | 20 |
| | | | 1-4-3 | 20 | 3 | 1 | 5 | 2 | 40 |
| | | | 1-4 | 20 | 3 | 3 | 3 | 60 | |
| | | | 1-4-5 | 20 | 3 | 1 | 5 | 2 | 40 |
| | | | 1-4-6 | 20 | 3 | 2 | 6 | 1 | 20 |
| | | | 1-4-7 | 20 | 3 | 3 | 7 | 0 | 0 |
| 2 | 120 | 4 | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 3 | 120 | 1 | | | | | | | |
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| | | | | | | | | | |
| 4 | 120 | 1 | 4-1 | 20 | 3 | | | 3 | 60 |
| | | 2 | 4-2 | 20 | 2 | | | 3 | 60 |
| | | 3 | 4-3 | 20 | 1 | | | 3 | 60 |
| | | 5 | 4-5 | 20 | 1 | | | 3 | 60 |
| | | 6 | 4-6 | 20 | 2 | | | 3 | 60 |
| | | 7 | 4-7 | 20 | 3 | | | 3 | 60 |
| 5 | 120 | 4 | | | | | | | |

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| | | | | | | | | |
| 6 | 120 | 4 | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| 7 | 120 | 4 | | | | | | |
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| | | | | | | | | |

840

| | |
|----------------------------------|--|
| Total Passengers = | |
| Total Itineraries = | |
| Total Flights = | |
| Total Aircraft Required = | |
| Aircraft Size Required (Seats) = | |

| | |
|--|--|
| Total Flight Miles = | |
| Total Seats = | |
| Total Available Seat Miles = | |
| Total (Arrival) Displacement Time = | |
| Average Flight Distance = | |
| Average Trip Time = | |
| Max Simultaneous Arrivals/Departures = | |

| | Beneficiaries\Victims | | | | |
|--|-----------------------|-------------|----------|------------|-----|
| | Direct | Hub-n-Spoke | Airlines | Passengers | ATC |
| Total Passengers = | | | | | |
| Total Itineraries = | | | | | |
| Total Flights = | | | | | |
| Total Aircraft Required = | | | | | |
| Aircraft Size Required (Seats)= | | | | | |
| Total Flight Miles = | | | | | |
| Total Seats = | | | | | |
| Total Available Seat Miles = | | | | | |
| Total (Arrival) Displacement Time = | | | | | |
| Average Flight Distance = | | | | | |
| Average Trip Time = | | | | | |
| Max Simultaneous Arrivals/Departures = | | | | | |