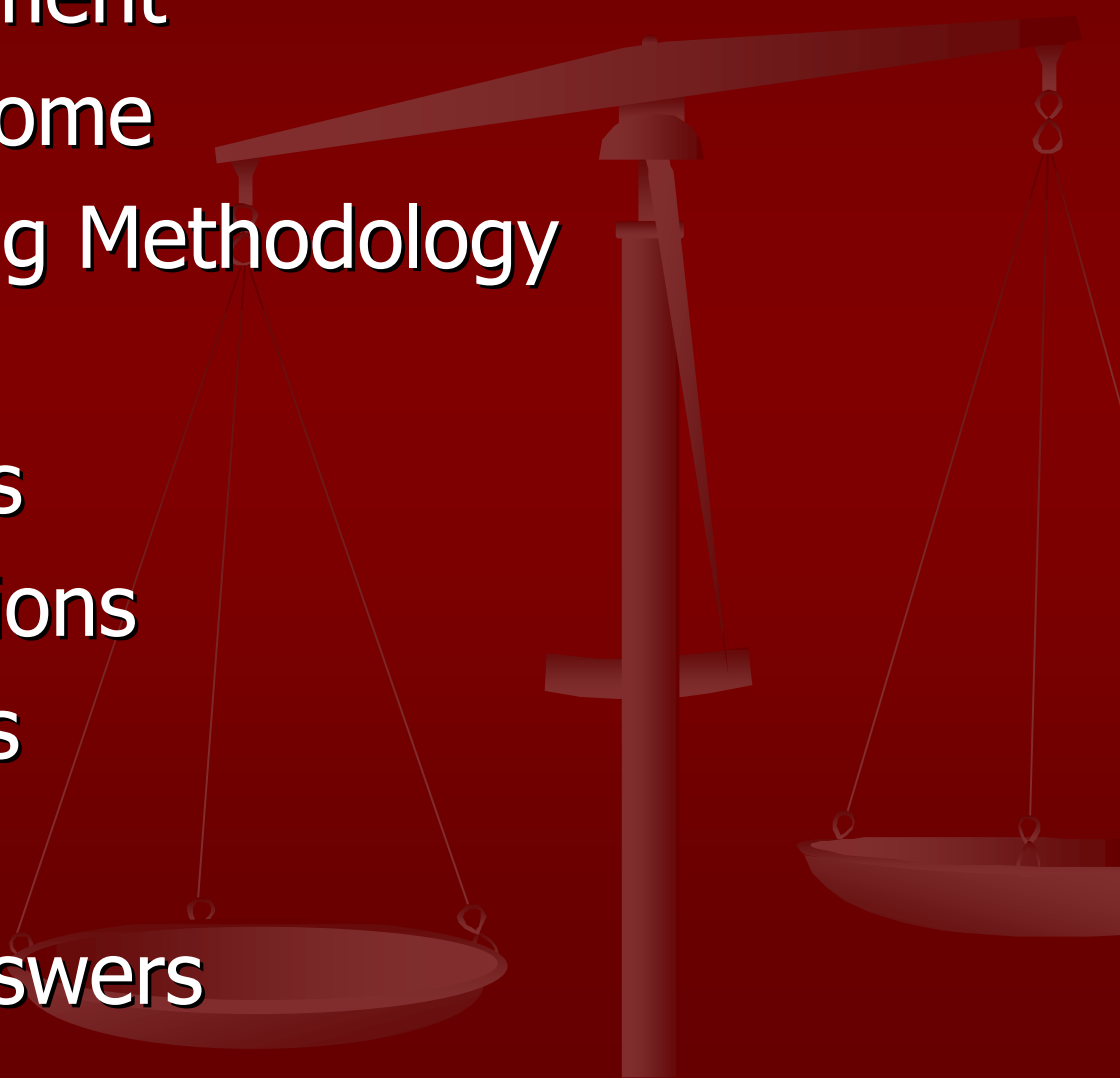


FedEx Freight – Forklift Problem Proposed Solution

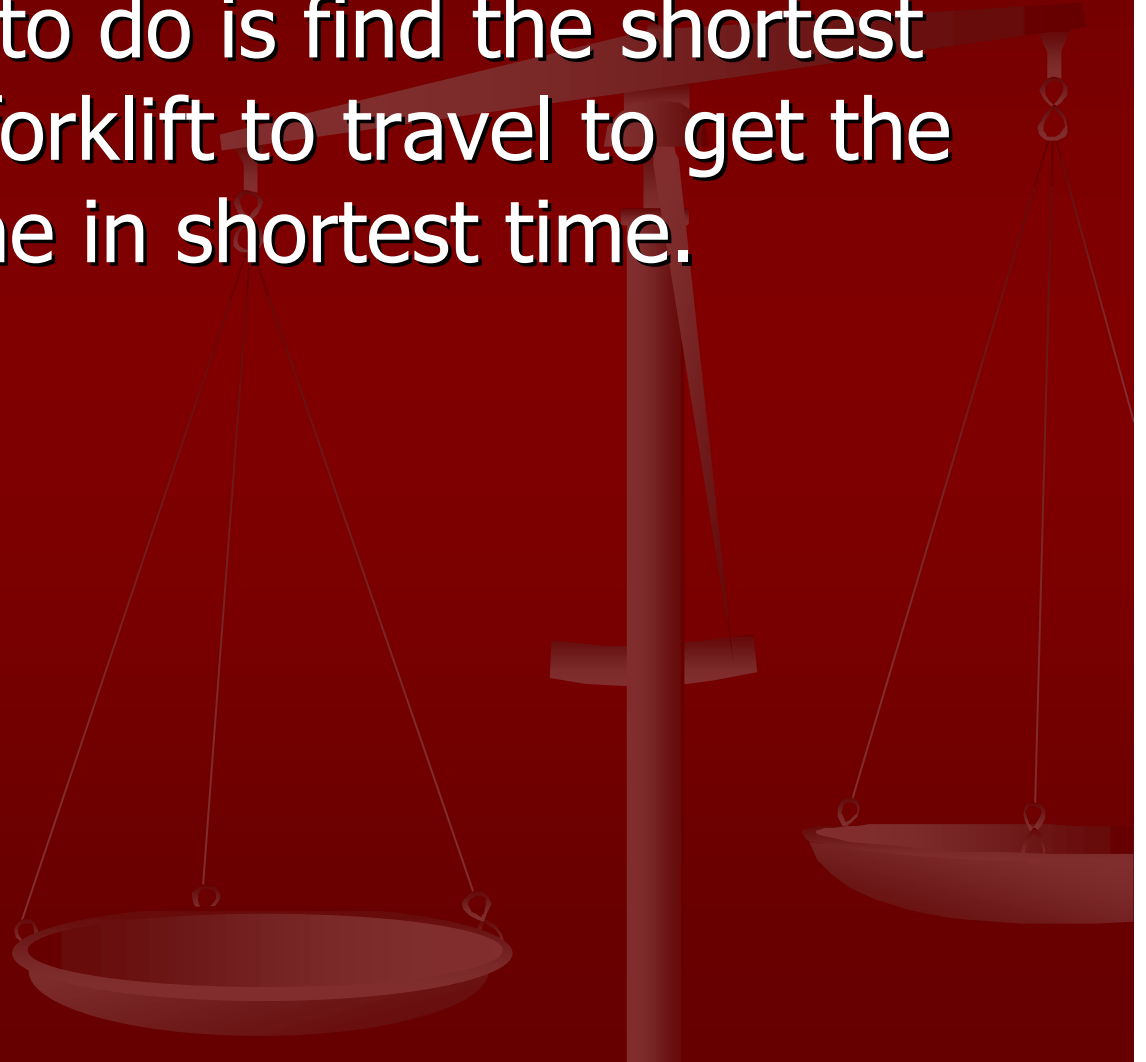


Agenda

- Problem Statement
 - Expected Outcome
 - Problem Solving Methodology
 - Data
 - Option Analysis
 - Recommendations
 - Further Studies
 - Summary
 - Question & Answers
- 

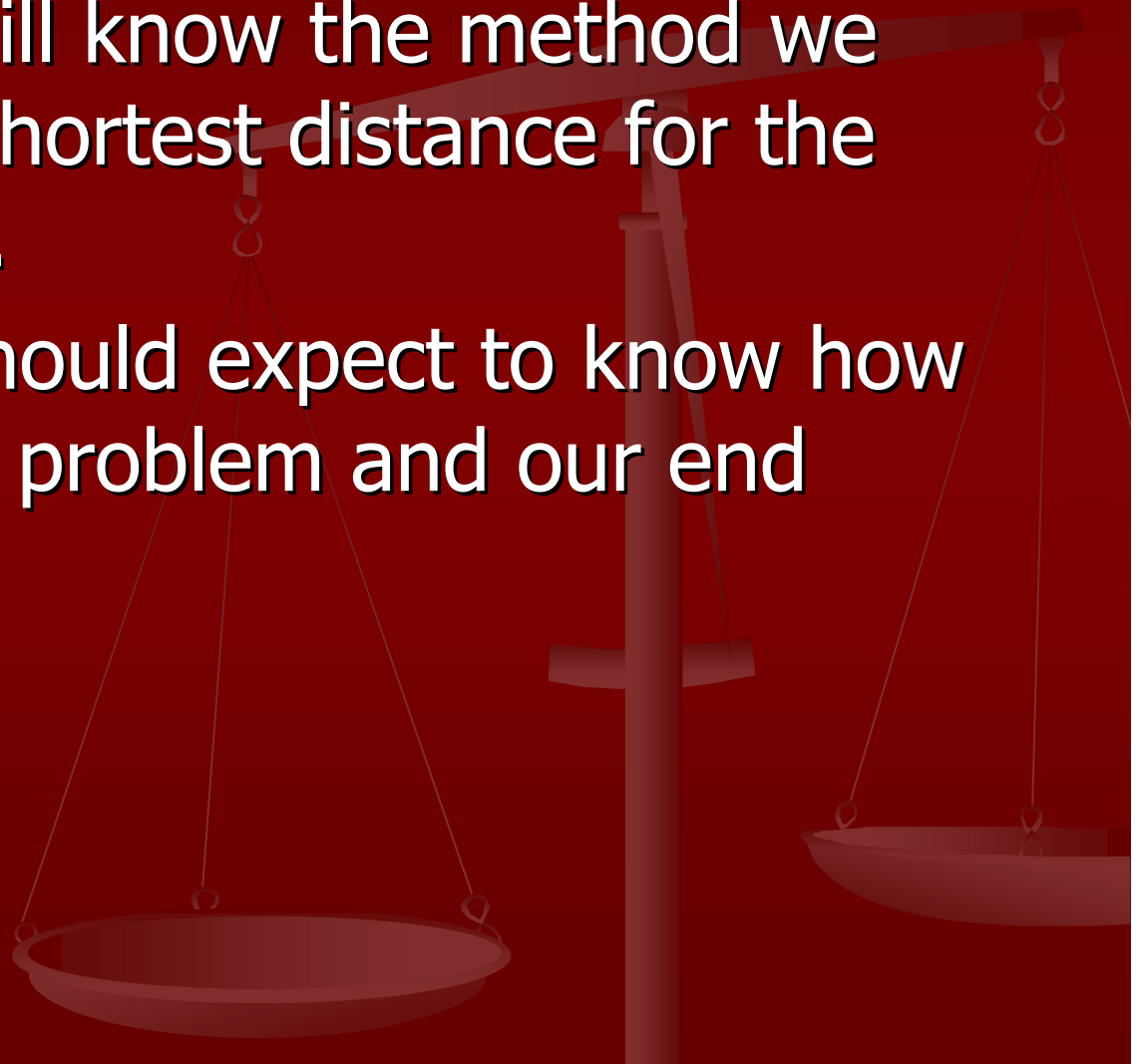
Problem Statement

What we need to do is find the shortest route for the forklift to travel to get the job done in shortest time.

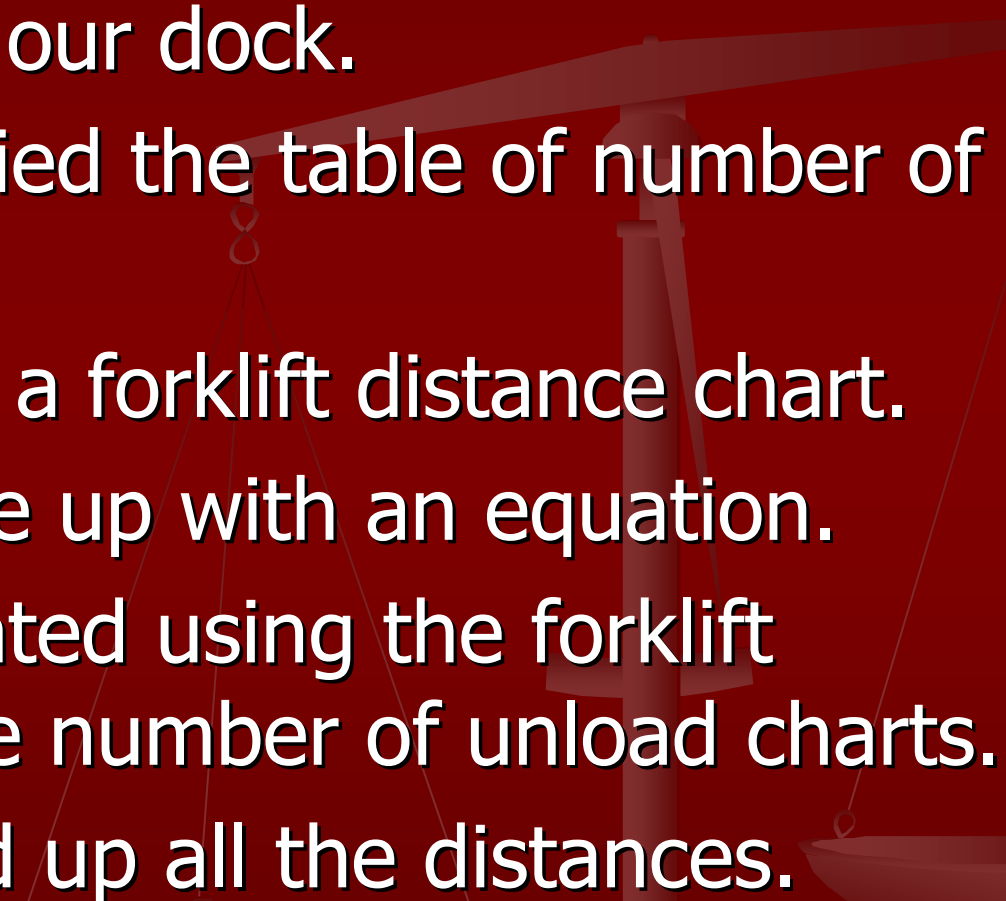


Expected Outcome

- The audience will know the method we use to get our shortest distance for the forklift to travel.
- The audience should expect to know how we lead out the problem and our end result.

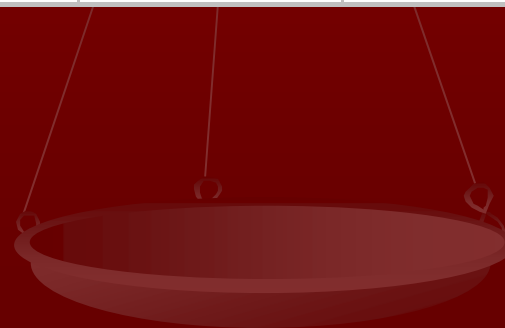


Problem Solving Methodology

- First, we set up our dock.
 - Second, we copied the table of number of unloads.
 - Third, we made a forklift distance chart.
 - Fourth, we came up with an equation.
 - Fifth, we calculated using the forklift distance and the number of unload charts.
 - Six, we summed up all the distances.
- 

Data

	DISTANCE					
	STL(16)	ORL(14)	N.Y.C.(6)	L.A.(13)	DEN(4)	TOTAL
B.BUY-A(5)	166	180	166	214.5	166	892.5
B.BUY-B(15)	124.5	124.5	166	53	120	588
C.CITY-A(3)	480	0	64.5	94.5	207.5	846.5
C.CITY-B(7)	0	166	207.5	214.5	129	717
TWEETER-A(12)	76	0	429	41.5	378	924.5
TWEETER-B(8)	235	378	159	83	152	1007
					in (ft)	4975.5

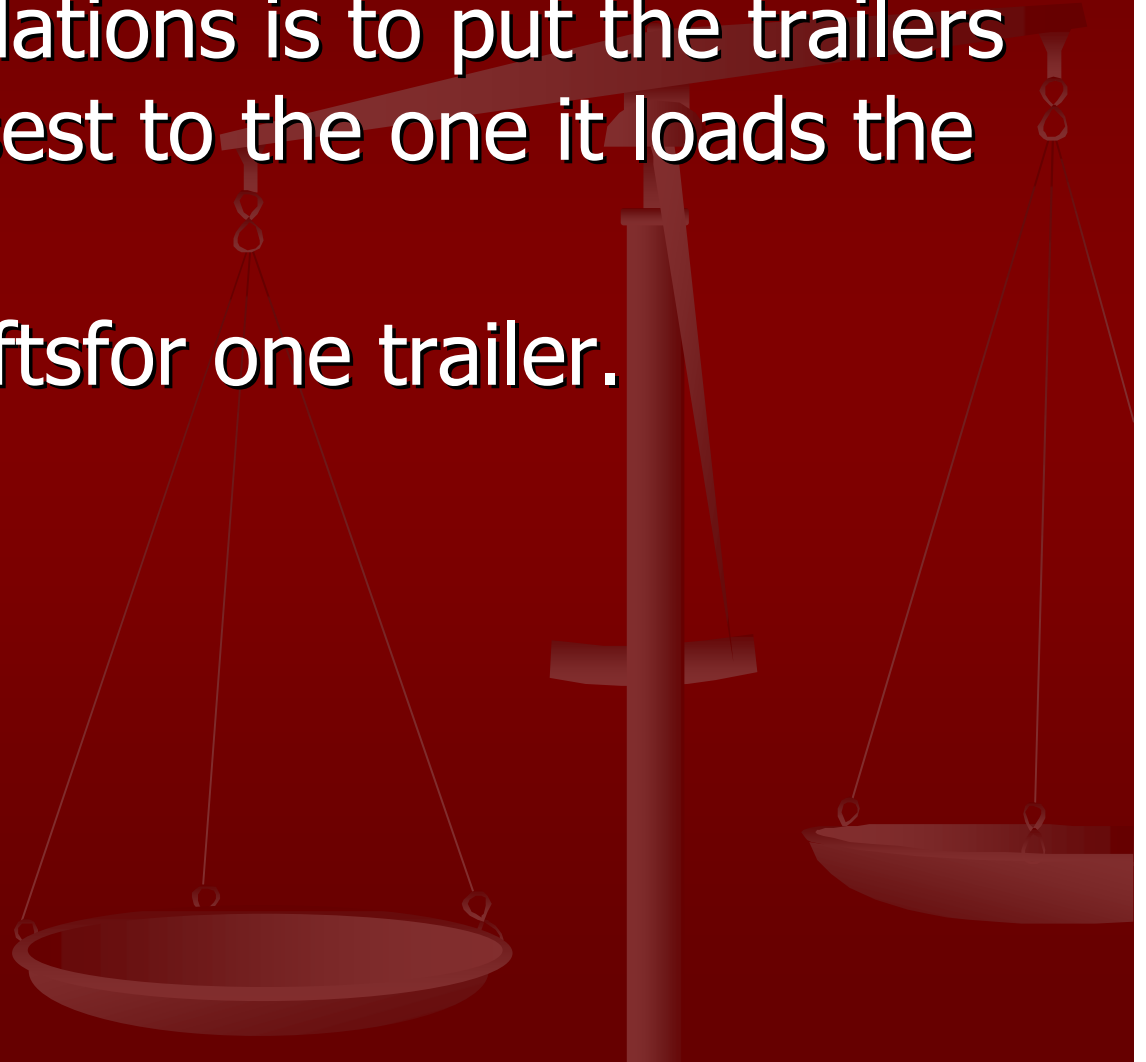


Option Analysis

OPTION #1				DISTANCE
9				10
8	TWEETER-B			11
7	C.CITY-B	TWEETER-A		12
6	N.Y.C.	L.A		13
5	B.BUY-A	ORL		14
4	DEN	B.BUY-B		15
3	C.CITY-A	STL		16
2				17
1				18
				4975.5
OPTION #2				
9				10
8	STL			11
7	B.BUY-B	ORL		12
6	TWEETER-A	C.CITY-B		13
5	C.CITY-A	DEN		14
4	N.Y.C.	B.BUY-A		15
3	L.A.	TWEETER-B		16
2				17
1				18
				5117.5
OPTION #3				
9				10
8		ORL		11
7	TWEETER-A	TWEETER-B		12
6	DEN	STL		13
5	L.A.	N.Y.C.		14
4	C.CITY-B	B.BUY-B		15
3	C.CITY-A	B.BUY-A		16
2				17
1				18
				5375

Recommendations

- Our recommendations is to put the trailers that unload closest to the one it loads the most.
- Using two forklifts for one trailer.

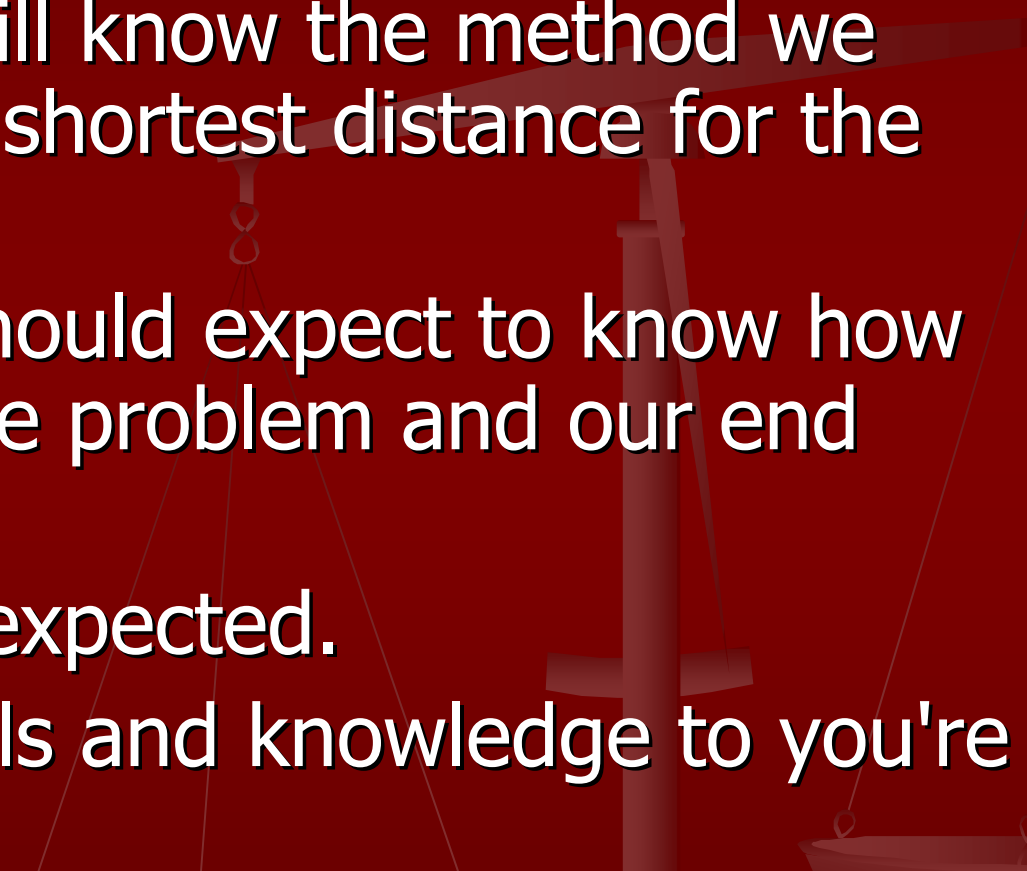


Further Studies

- Making a layout.
- Ask other people for advice.
- Highlight all the important parts.
- Running out of gas
- Break time
- Injuries
- Missed calculations



Summary

- The audience will know the method we used to get our shortest distance for the forklift to travel.
 - The audience should expect to know how we described the problem and our end result.
 - Think of the unexpected.
 - Use the materials and knowledge to you're best ability.
- 

Questions & Answers

