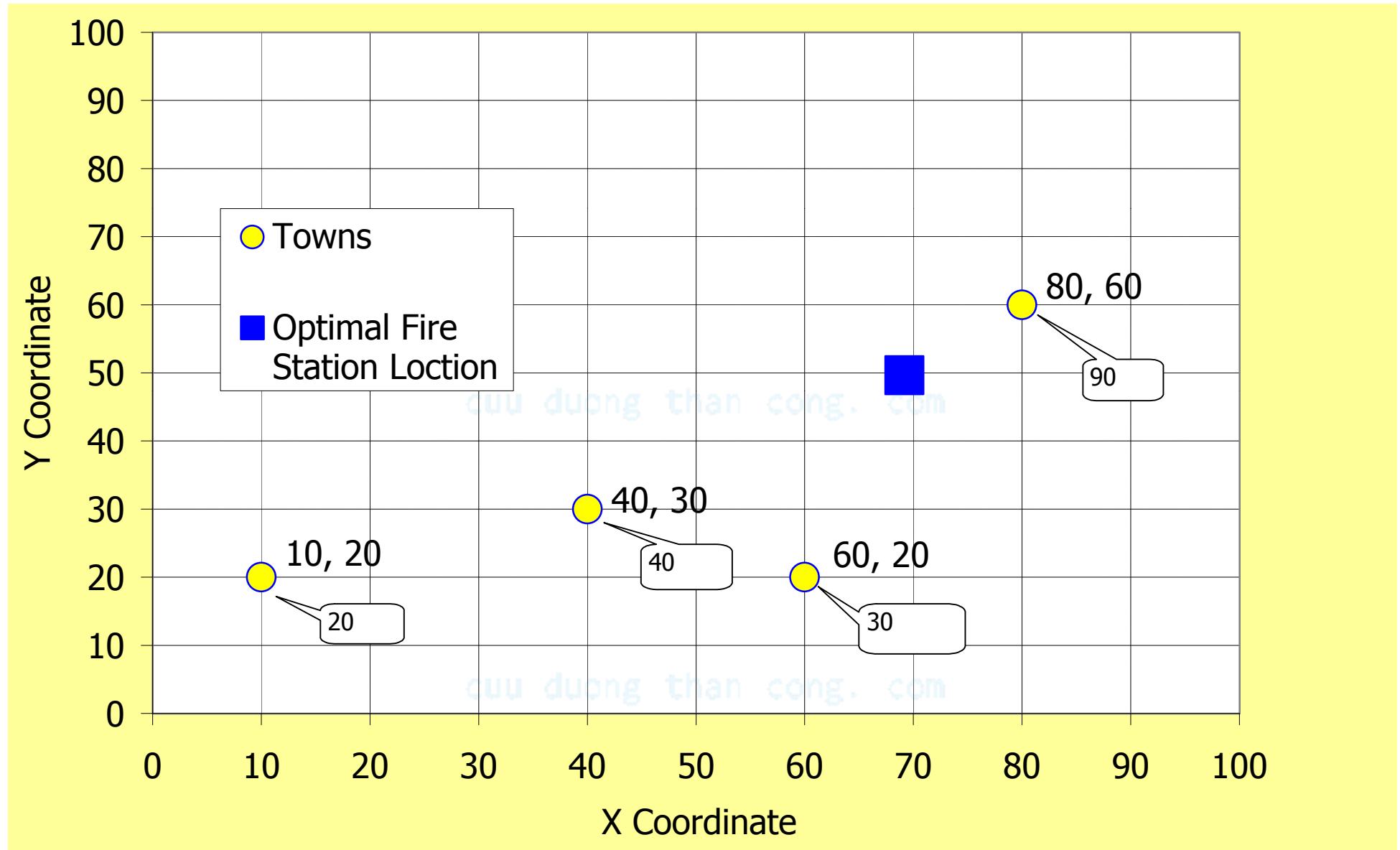


	A	B	C	D	E
2					
3	Location of Towns				
4		X-coordinate	Y-coordinate		Average Fires
5	Town 1	10	20		20
6	Town 2	60	20		30
7	Town 3	40	30		40
8	Town 4	80	60		90
9					
10	Firestation Location				
11		X-coordinate	Y-coordinate		
12		69.160	49.657		
13					
14	Distance Towns from Fire Station				
15		Distance			
16	Town 1	88.817			
17	Town 2	38.817			
18	Town 3	48.817			
19	Town 4	21.183			
20					
21	Average Annual distance travelled	6800.000			
22					



	A	B	C	D	E	F
1	Fire station location problem					
2						
3	Location of Towns					
4		X-coordinate	Y-coordinate		Average Fires	
5	Town 1	10	20		20	
6	Town 2	60	30		30	
7	Town 3	40	40		40	
8	Town 4	80	90		25	
9						
10	Firestation Location					
11		X-coordinate	Y-coordinate			
12		69.1599430555229	49.657261988024			
13						
14	Distance Towns from Fire Station					
15		Distance				
16	Town 1	=ABS(B5-\$B\$12)+ABS(C5-\$C\$12)				
17	Town 2	=ABS(B6-\$B\$12)+ABS(C6-\$C\$12)				
18	Town 3	=ABS(B7-\$B\$12)+ABS(C7-\$C\$12)				
19	Town 4	=ABS(B8-\$B\$12)+ABS(C8-\$C\$12)				
20						
21	Average Annual distance travelled	=SUMPRODUCT(B16:B19,E5:E8)				
22						

Microsoft Excel - FireStationLocation-1.xls

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B21 =SUMPRODUCT(B16:B19,E5:E8)

	A	B	C	D	E	F	G
3	Location of Towns						
4		X-coordinate	Y-coordinate		Average Fires		
5	Town 1	40	30		20		
6	Town 2						
7	Town 3						
8	Town 4						
9							
10	Firestation Location						
11							
12							
13							
14	Distance Towns from						
15							
16	Town 1						
17	Town 2						
18	Town 3						
19	Town 4						
20							
21	Average Annual distance travelled	6800.000					
22							
23							

Solver Parameters

Set Target Cell:

Equal To: ☐ Max ☒ Min ☐ Value of:

By Changing Cells:

Subject to the Constraints:

FireStation Chart2 FireStationF

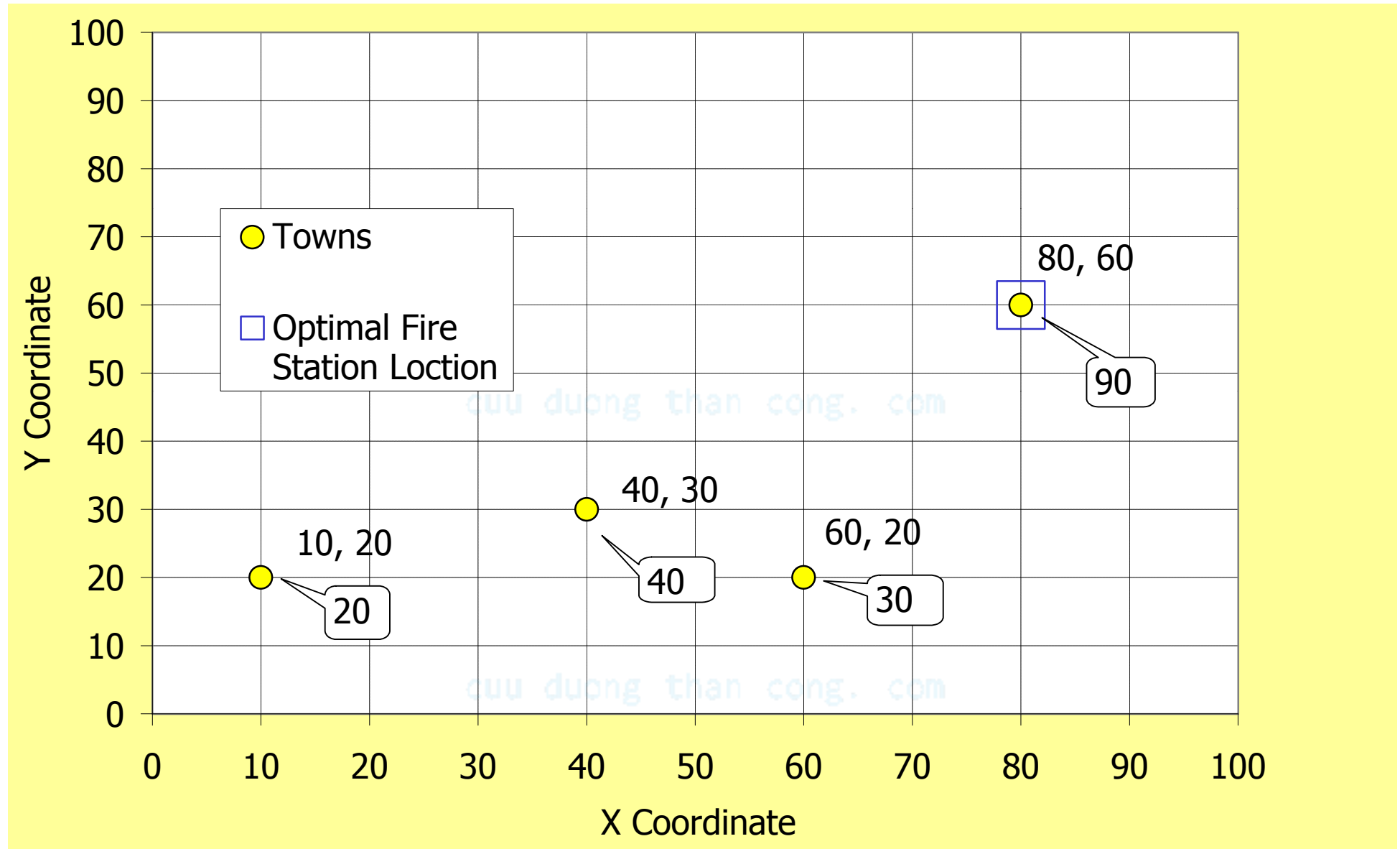
Draw AutoShapes

Point NUM

Start Microsoft Excel - Fire... Jasc Paint Shop Pro

Tue, 9 Oct 2001 06:57:06

	A	B	C	D	E	F
1	Fire station location problem					
2						
3	Location of Towns					
4		X-coordinate	Y-coordinate		Average Fires	
5	Town 1	10	20		20	
6	Town 2	60	20		30	
7	Town 3	40	30		40	
8	Town 4	80	60		90	
9						
10	Firestation Location					
11		X-coordinate	Y-coordinate			
12		80.000	60.000			
13						
14	Distance Towns from Fire Station					
15		Distance				
16	Town 1	80.622				
17	Town 2	44.721				
18	Town 3	50.000				
19	Town 4	0.000				
20						
21	Average Annual distance travelled	4954.093				
22						



	A	B	C	D	E
1	Fire station location problem				
2					
3	Location of Towns				
4		X-coordinate	Y-coordinate		Average Fires
5	Town 1	10	20		20
6	Town 2	60	20		30
7	Town 3	40	30		40
8	Town 4	80	60		90
9					
10	Firestation Location				
11		X-coordinate	Y-coordinate		
12		79.999797752589	59.9998139039423		
13					
14	Distance Towns from Fire Station				
15		Distance			
16	Town 1	=SQRT((B5-\$B\$12)^2+(C5-\$C\$12)^2)			
17	Town 2	=SQRT((B6-\$B\$12)^2+(C6-\$C\$12)^2)			
18	Town 3	=SQRT((B7-\$B\$12)^2+(C7-\$C\$12)^2)			
19	Town 4	=SQRT((B8-\$B\$12)^2+(C8-\$C\$12)^2)			
20					
21	Average Annual distance travelled	=SUMPRODUCT(B16:B19,E5:E8)			
22					