

Computer Laboratory Session 2

Aims

1. Systematic Supplier Selection

Objectives

1. To short list suppliers
2. To use the equal and weighted decision strategy
3. To plot supplier benefits versus price

Challenge – Supplier selection

Data from several suppliers has been found.

Table 1 Supplier data.

#	Region	Quality	distance to plant	distance to warehouse	price
1	A	2	60	100	120
2	B	3	40	130	100
3	B	4	100	150	200
4	A	2	400	110	70
5	B	3	50	100	150
6	A	4	50	140	100
7	B	2	200	50	40
8	A	4	100	110	40
9	A	2	300	100	30
10	B	3	400	110	70
11	A	2	200	75	80
12	A	2	300	110	50

Tasks

1. Shortlist suppliers
2. Apply equal weight strategy
3. Determine utilities (this time using the weighted decision strategy)
4. Plot prices versus benefits

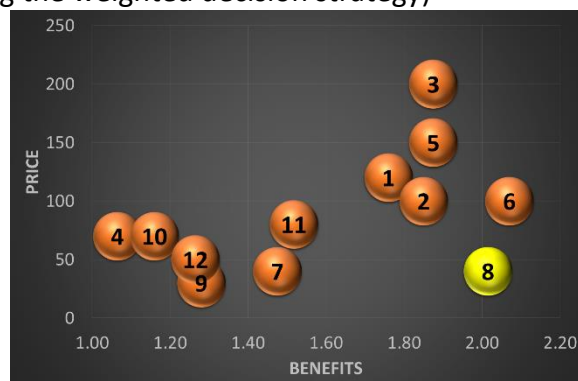


Figure 1 Supplier 8 has favored benefits and price.

