Assignment cost tables

Name: _____ Date: _____

6 questions | 16 marks

1. Use the technician table to find the cost of Ali→1, Bea→2 and Chen→3. [2 marks]

Cost ($) of assigning one technician to each job.

Technician	Job 1	Job 2	Job 3
Ali	9	2	7
Bea	6	4	3
Chen	5	8	1

2. List all six possible job sequences for Ali, Bea and Chen. [3 marks]

3. Evaluate all six technician assignments and identify the minimum. [4 marks]

Cost ($) of assigning one technician to each job.

Technician	Job 1	Job 2	Job 3
Ali	9	2	7
Bea	6	4	3
Chen	5	8	1

4. A table records the time each driver needs for a separate delivery. Explain one assumption needed before minimising the sum of the times. [2 marks]

5. A proposed allocation uses one entry in each column but two entries in one row. Is it feasible for a standard one-to-one square assignment? [2 marks]

6. If every selected cost in a four-person assignment is increased by $3, how much does the total increase, and does this change which complete assignment is cheapest? [3 marks]