Practice worksheet | Networks

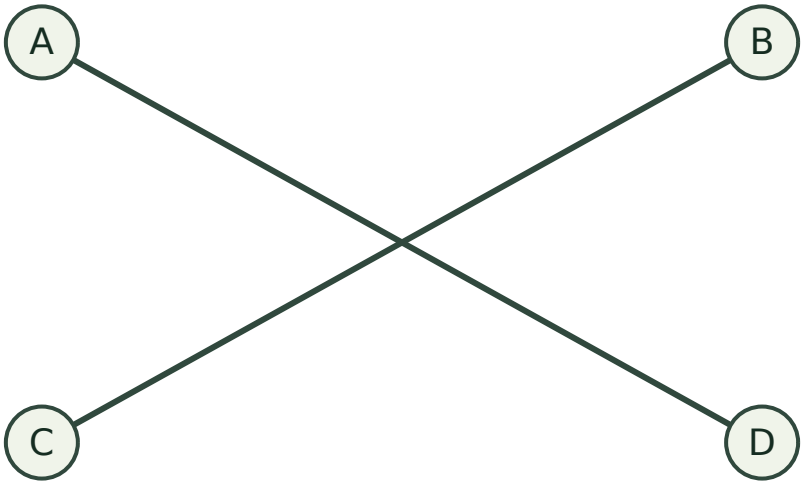
Comparing representations

Name: _____ Date: _____

6 questions | 14 marks

1. A diagram is redrawn with all vertices moved but the same labelled edge set. Has the network changed? [2 marks]

2. Count vertices and components in the crossing-edge diagram. [2 marks]



3. An undirected table has row sums 2,3,1,2. Find the number of edges. [2 marks]

4. P has AB, BC, CD, DA. Q has AC, CB, BD, DA. Are these the same labelled network? [3 marks]

5. Stations move farther apart on a non-scale diagram. Can you infer longer travel time? [2 marks]

6. List edges from the table and say whether it is connected. [3 marks]

From / to	A	B	C	D
A	0	1	0	1
B	1	0	1	0
C	0	1	0	1
D	1	0	1	0