Practice worksheet | Networks, scheduling and assignment

Precedence tables

Name: _____ Date: _____

6 questions | 14 marks

1. Using the display-project table, identify every activity that can start at time 0. [2 marks]

A school display project. Times are in days.

Activity	Duration	Immediate predecessors
A	4	None
B	3	None
C	5	A
D	4	A
E	2	B and D
F	3	C and E

2. Using the display-project table, state the immediate predecessors and all indirect predecessors of F. [3 marks]

A school display project. Times are in days.

Activity	Duration	Immediate predecessors
A	4	None
B	3	None
C	5	A
D	4	A
E	2	B and D
F	3	C and E

3. A delivery A takes 1 day. Cutting B and cleaning C each follow A. Fitting D needs both B and C. Write just the predecessor column for A, B, C and D. [3 marks]

4. A table says A follows C, B follows A, and C follows B. Explain why this is not a workable project plan. [2 marks]

5. Painting P follows priming R, which follows cleaning C. Should the immediate predecessors of P be C and R? Explain. [2 marks]

6. Two independent jobs have no predecessors, but both need the same single crane. Does the precedence table alone guarantee that they can occur together? [2 marks]