

8A Modelling a Project

Dependency:

Precedence (dependence) table:

1. The manufacture of a sofa involves the construction of a wooden frame which is then fitted with springs. The frame is then covered with padding and fabric. Cushions are cut out of the same fabric which must then be stitched and filled. The assembly of the sofa is completed by attaching the cushions. It is then inspected before being wrapped in a protective covering ready for shipping.
Represent the information above in a systematic way that makes any dependencies clear.

Activity	Depends on
A	
B	
C	
D	
E	
F	
G	
H	

2. The production of a new textbook may be broken down into activities A to G. Activities A and B do not depend on any other activities. Both activities C and D can only be started once A has been completed. Activity E cannot be started until activity B has been completed and activity F cannot be started until activities C and E have been completed. Activity G can only begin once all other activities have been completed.

Draw a precedence table to represent this information.

Activity	Depends on
A	
B	
C	
D	
E	
F	
G	

Activity on arc network:

Events (nodes):

Source node and sink node:

3. Draw an activity network for the precedence table given in question 2.