Total Float = 50 – 10 – 10
= **30 days**

at

the amount of time an activity can be delayed without affecting the ncement of a subsequent activity at its earliest start time, but may affect float vious activity.

Free Float = Earliest Head time – Earliest Tail time – Activity Duration
Free Float = 40 – 10 – 10
= **20 days**

ıdent float

:he amount of time an activity can be delayed when all preceding activities are ·ted as late as possible and all succeeding activities completed as early as e. Independent float therefore does not affect the float of either preceding or uent activities.

:pendent float = Earliest Head time – Latest Tail time – Activity Duration
:pendent float = 40 – 20 – 10
= **10 days**

ımination purposes the most important type of float is Total Float because it is ed with the overall project duration. On occasions the term 'Float' is used ıt qualification. In such cases assume that Total Float is required.

tal float can be calculated separately for each activity but it is often useful to .e total float over chains of non-critical activities between critical events. For le in Figure 23/4 the only non-critical chain of activities is C, E for which the ing calculation can be made:

Non-critical chain	Time required	Time available	Total float over chain
C, E	3 + 1 = **4 days**	7 – 1 = **6 days**	= 2 days

e of the 'chain float' is used up on one of the activities in a chain it reduces the / available to other activities in the chain.

ative terms for Earliest Head Time and Latest Headtime are Earliest Finishing EFT) and Latest Finishing Time (LFT), respectively.

float calculations

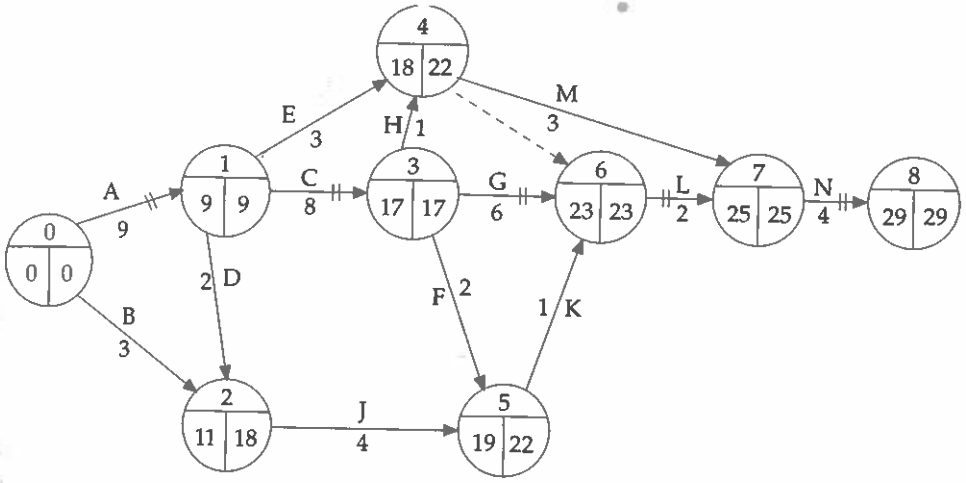
ple used in the preceding chapter is reproduced below with the addition of ırations. It is required to find the critical path and all floats.

B	–	Prepare Boat Shed	3
C	A	Design Mast and Mast Mount	8
D	A	Obtain Hull	2
E	A	Design Sails	3
F	C	Obtain Mast Mount	2
G	C	Obtain Mast	6
H	C	Design Rigging	1
J	B, D	Prepare Hull	4
K	F, J	Fit Mast Mount to Hull	1
L	E, H, G, K	Step Mast	2
M	E, H	Obtain Sails and Rigging	3
N	L M	Fit Sails and Rigging	4

Solution

The network is shown in the normal manner in Figure 23/6 from which it will be seen that the critical path is:

Activities A, C, G, L, N with a duration of 29 days.



Project XXX network. Figure 23/6