

Exercises

In order to test yourself on time management, complete the following questions based on Figure 6-7 below.

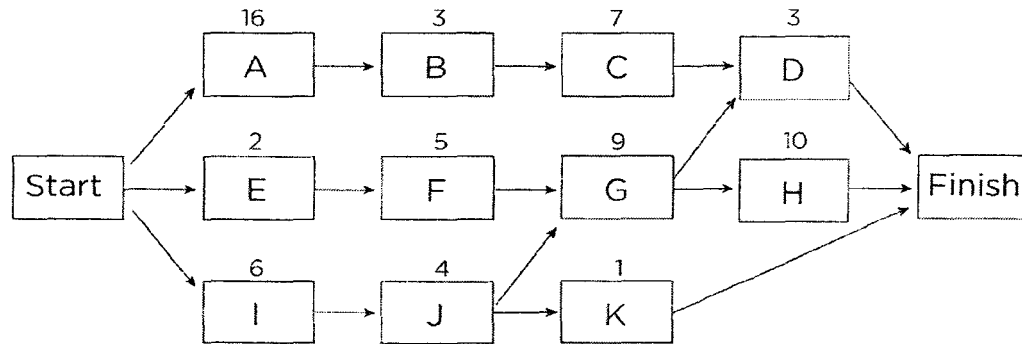


Figure 6-7: Project Network Diagram.
Durations shown in days

1. List all the paths through the network logic diagram as illustrated in Figure 6-7.
2. What is the critical path through the network diagram shown in Figure 6-7?
3. List the float for each activity in the network diagram shown in Figure 6-7.

4. Provided the following table, how many weeks long is the critical path?

Activity	Preceding Activity	Duration (in weeks)
Start		0
A	Start	6
B	A, E	2
C	B	2
D	C	3
E	Start	1
F	A, E	1
G	F, B	7
Finish	D, G	0

5. Given the table in question 4 above, describe the effect of Activity D taking twice as long as planned.
6. An activity has 3 estimates, provided below:
- Optimistic = 10 days
Pessimistic = 25 days
Realistic = 15 days
- What is the three-point estimate for this activity?
7. What is the standard deviation for the activity in question 6?
8. Given the project network node depicted below, fill in the value in the missing quadrant, and calculate the duration and the float for the activity.

