

ISTE-764 Project Management Activity 4

Assume the following activities for a project along with their estimated durations and predecessors. Calculate activity durations and construct a PERT chart based on the information in the table. Then answer the following questions. When specifying a path in your answer, refer to the path in terms of its activities, e.g. Path R-S-T-X-Z. Also, be sure to show intermediate work if you want partial credit. Submit your answers to the Activity 4 Dropbox.

Activity	Predecessor	Optimistic Estimated Duration	Most Likely Estimated Duration	Pessimistic Estimated Duration
A	None	2	3	5
B	A	2	4	5
C	A	1	2	3
D	B	3	4	5
E	C	3	3	7
F	C	2	5	5
G	E	2	3	4
H	D,G,I	1	1	1
I	F	3	3	7
J	H	1	2	4

1. What is the critical path?
2. What path has the most slack time?
3. If Activity E is crashed to half the number of days, what is the critical path?
4. If instead of crashing Activity E, Activity F is crashed to half the number of days, what is the critical path?