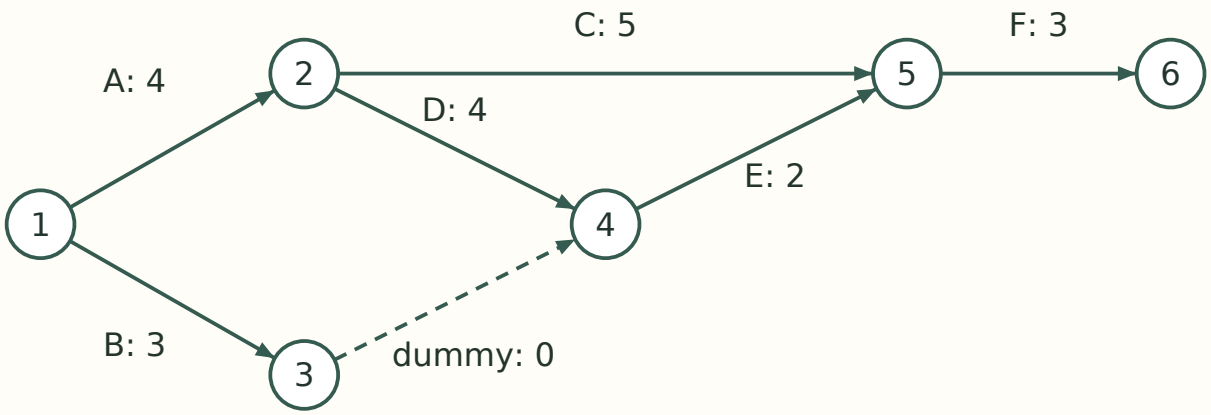
Practice worksheet | Networks, scheduling and assignment

Critical paths

Name: _____ Date: _____

6 questions | 15 marks

1. Find the critical path and its duration for the displayed network. [3 marks]



Activity-on-arrow network; durations are in days.

2. Complete paths have durations 9, 15, 12 and 15 weeks. Find the completion time and number of critical paths. [2 marks]

3. A project starts with P (3 hours) and Q (5 hours) in parallel. R (4 hours) follows P and S (2 hours) follows Q. T (1 hour) follows both R and S. Find all critical paths. [3 marks]

4. A path contains a zero-duration dummy. Can it still be critical? [2 marks]

5. A network shows three connected zero-float activities beginning at the project start but not reaching the finish. Is that list enough to name a complete critical path? [2 marks]

6. The critical path has duration 24 hours. A non-critical path takes 21. If an activity appearing only on the non-critical path is extended by 4 hours, what is the revised completion time? [3 marks]