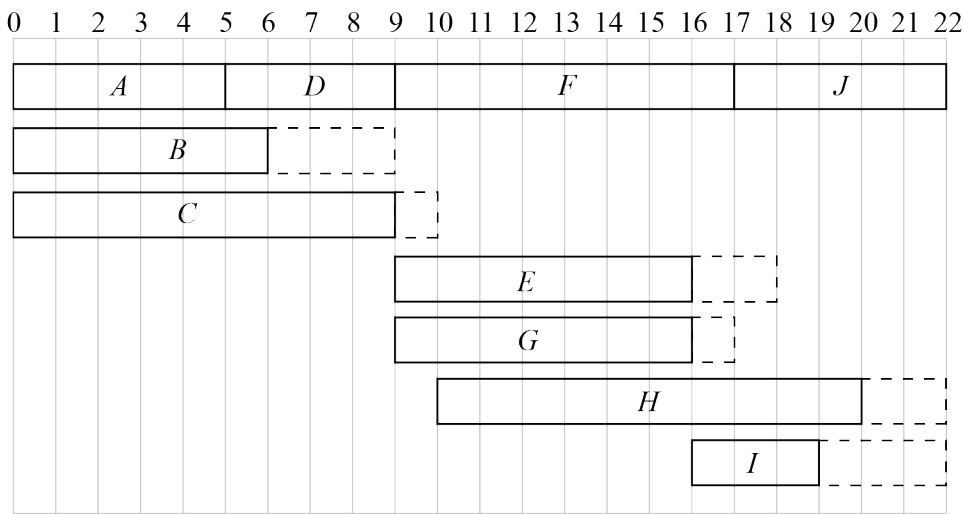


Exercise 6G

1 a

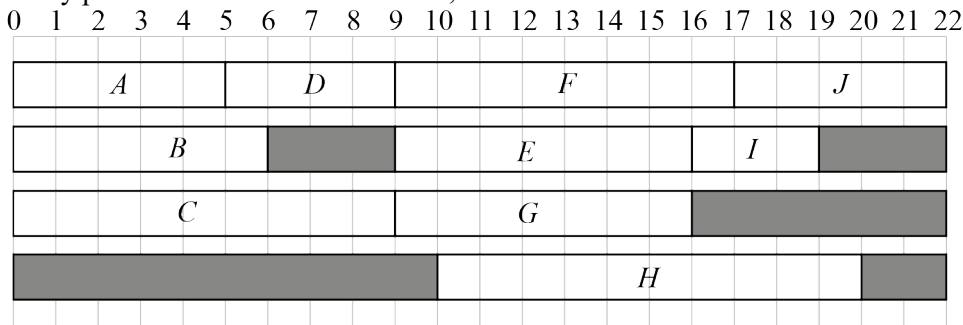


$$\frac{\text{total duration}}{\text{critical time}} = \frac{64}{22} = 2.909... \text{ so lower bound} = 3 \text{ workers.}$$

b 2 hours is less than the total float for activity *B* (3 hours).

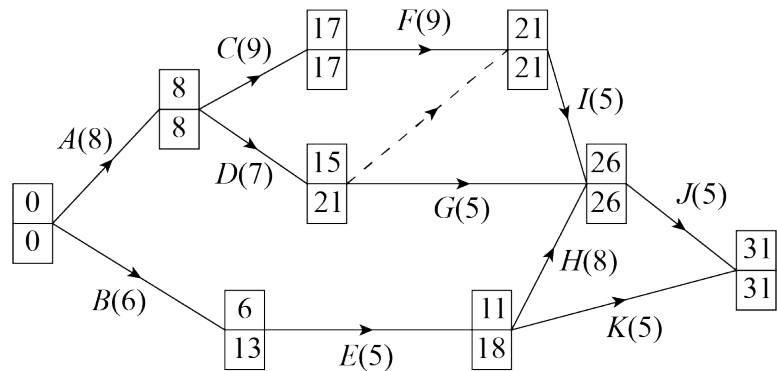
c *J* and *H*

d Many possible solutions are available, such as

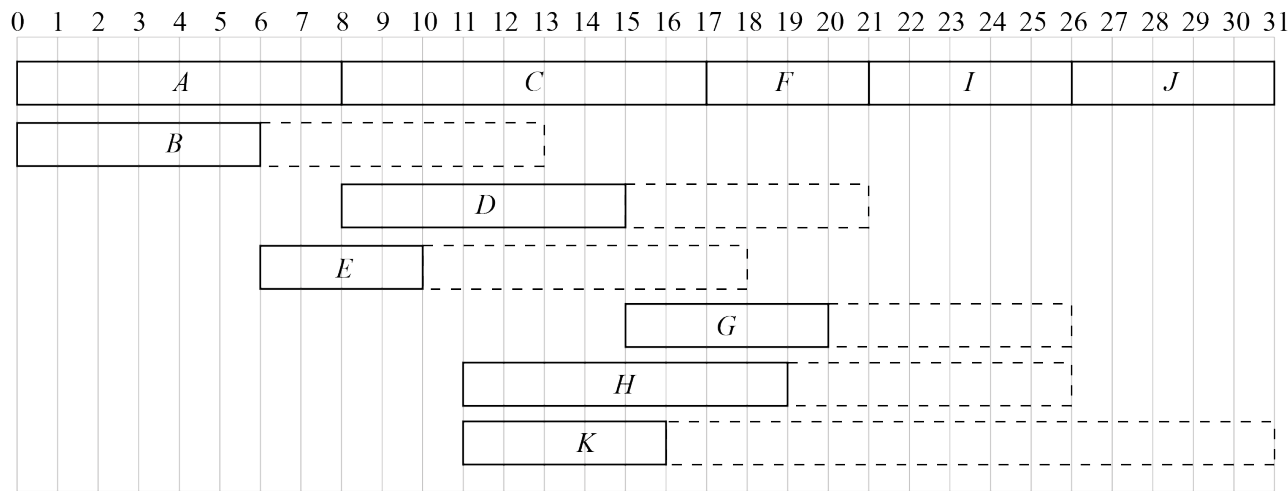


4 workers are required.

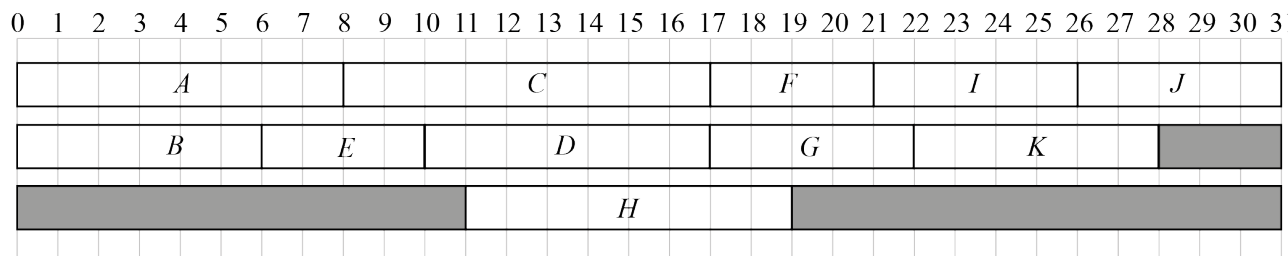
2 a



The Gantt chart for this activity network is:

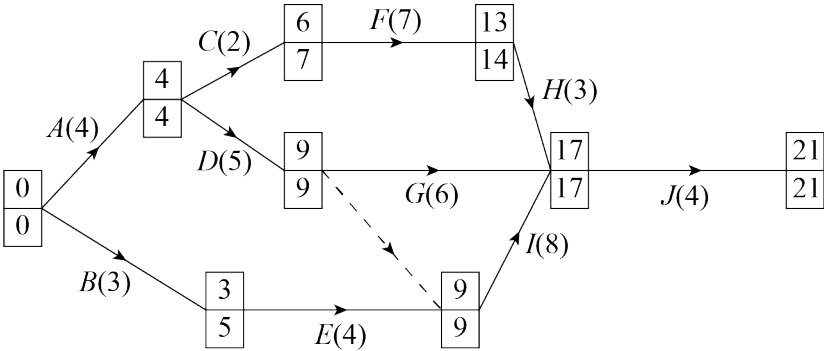


b Many possible solutions are available, such as



3 workers are needed to complete the project in the critical time.

3



Since only two workers are available for this project the scheduling diagram is:

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
			A		C				F								I				J				
		B			E				D					G					H						

The minimum time to complete the project using two workers is 25 days.