

Paper Reference 8FM0–27
Pearson Edexcel
Level 3 GCE

Further Mathematics
Advanced Subsidiary
Further Mathematics options
27: Decision Mathematics 1
(Part of options D, F, H and K)

Thursday 17 May 2018 – Afternoon

Diagram Book

**In the boxes below, write your name,
centre number and candidate number.**

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

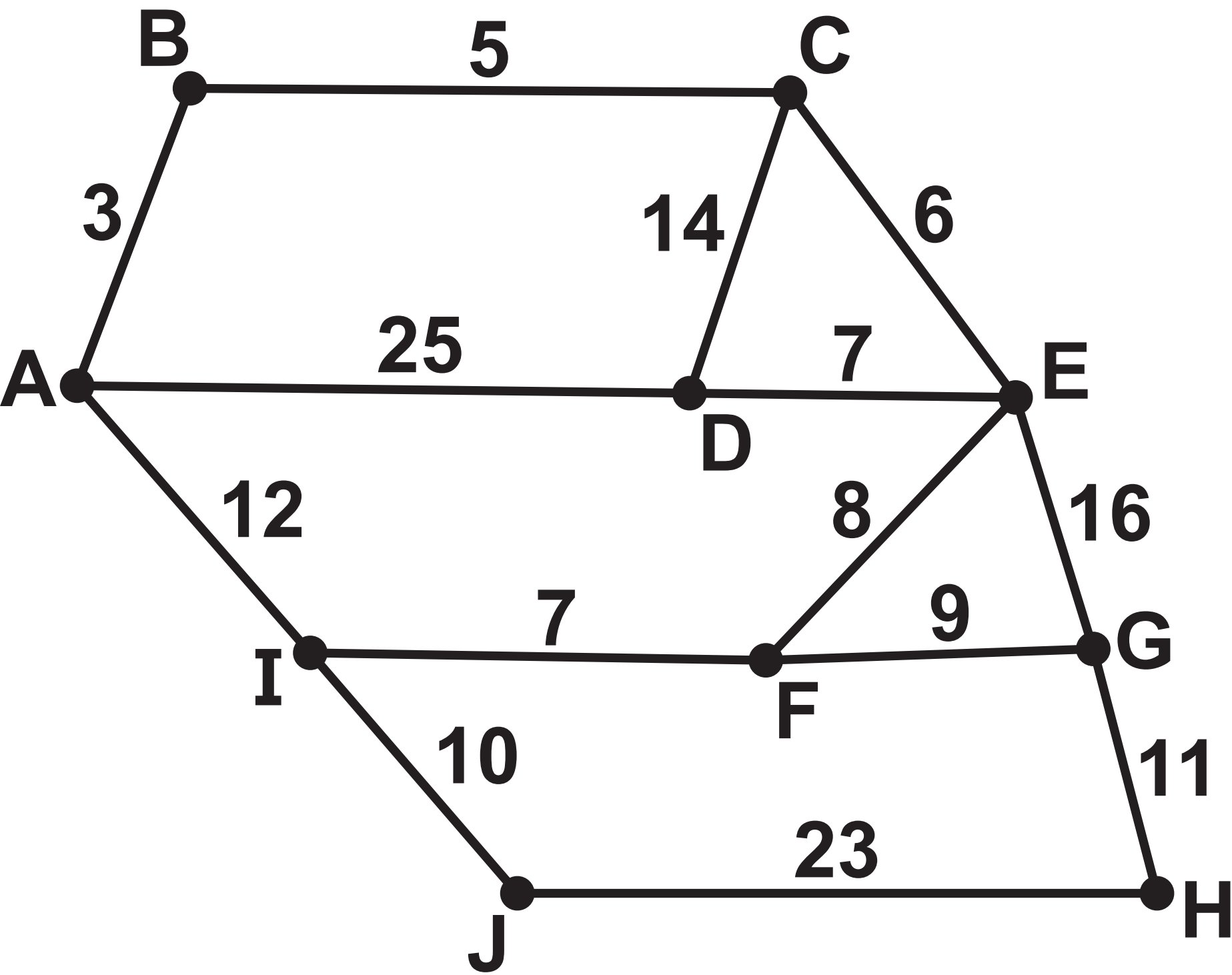
There are two copies of all diagrams in case you need them.

**THIS DIAGRAM BOOK MUST BE
RETURNED WITH THE ANSWER
BOOK AT THE END OF THE
EXAMINATION.**

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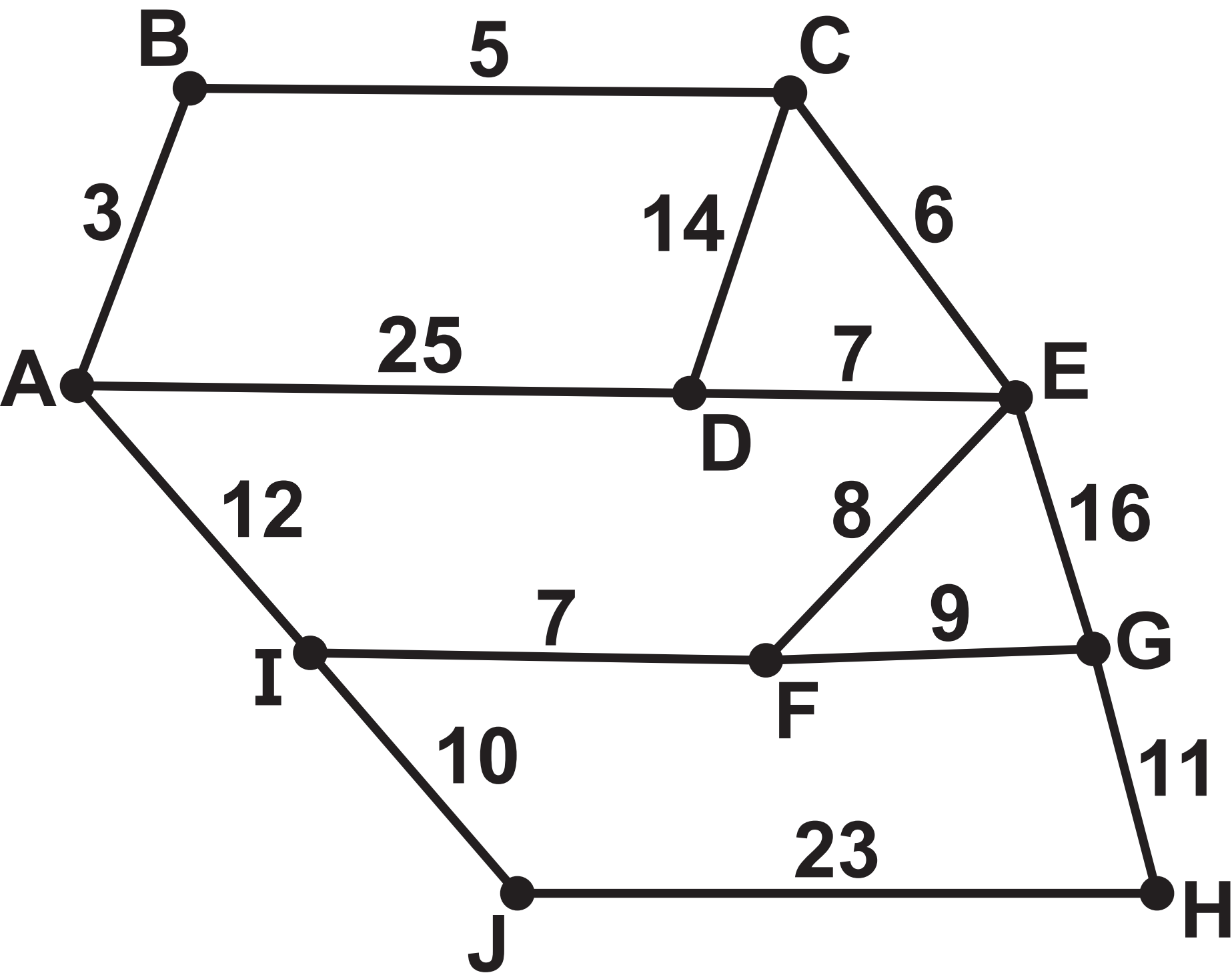
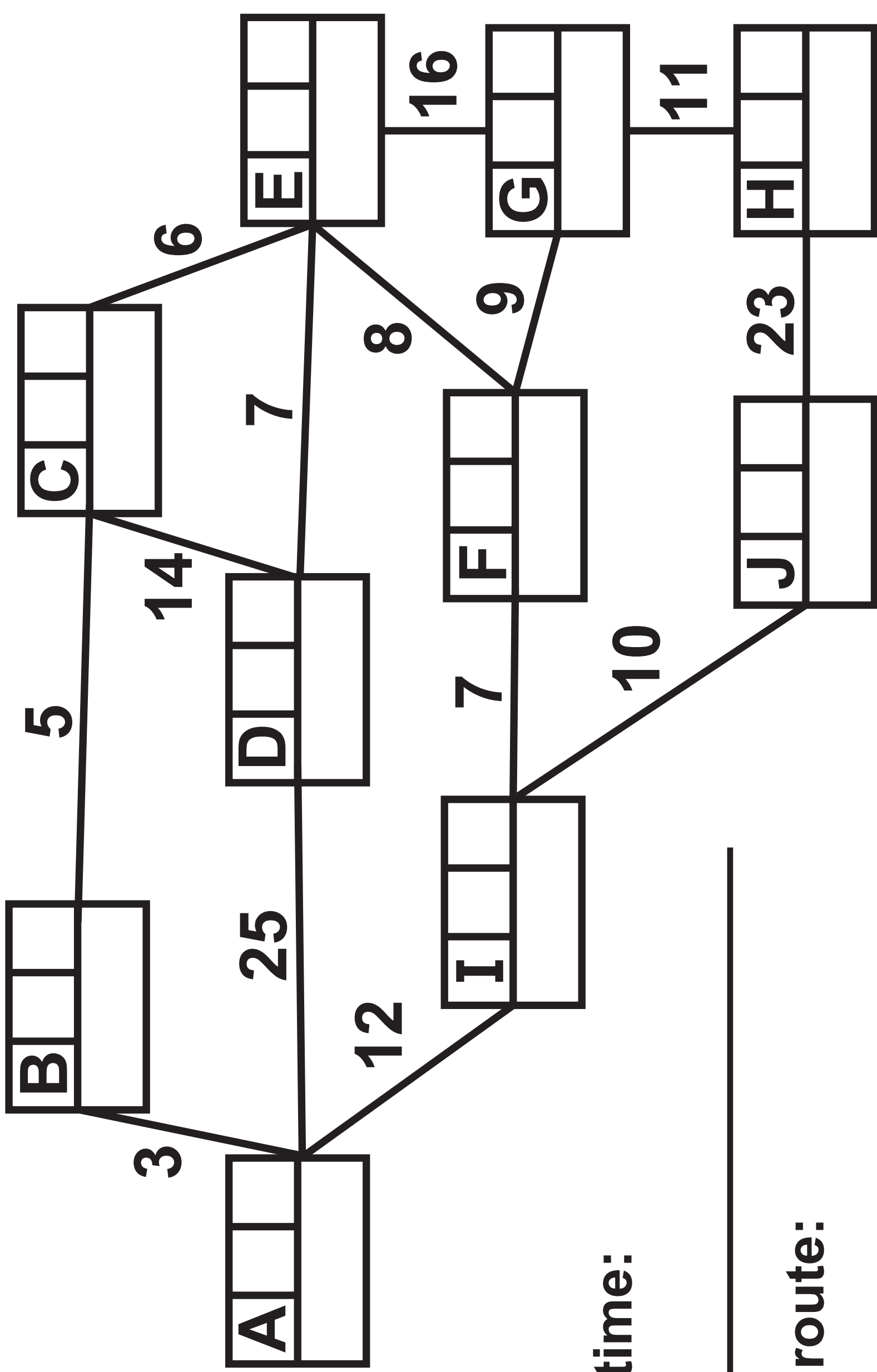


Diagram 2 – Key

Key:

Vertex	Order of labelling	Final value
Working values		

Diagram 2



Shortest time:

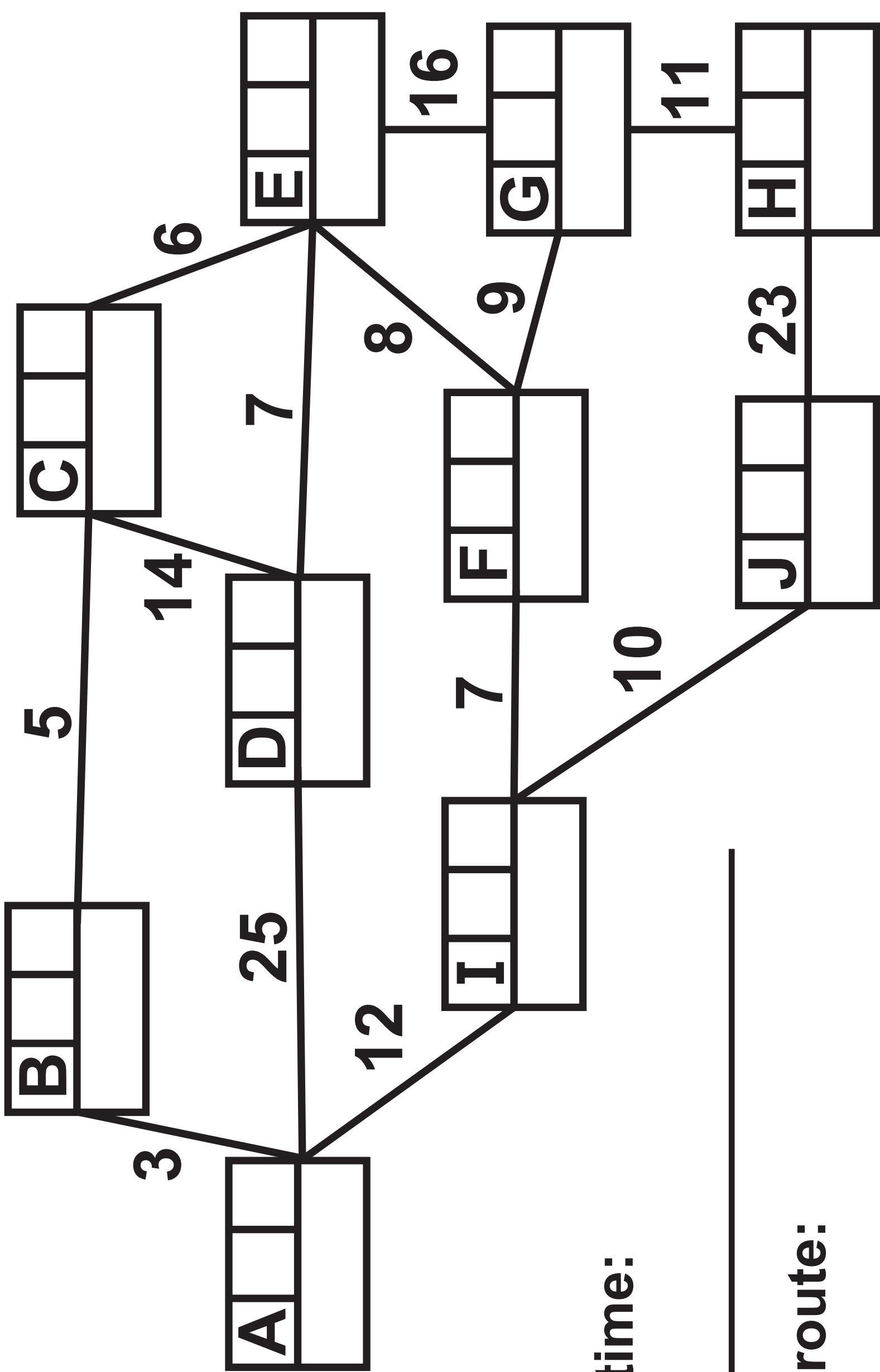
Quickest route:

Diagram 2 – Key

Key:

Vertex	Order of labelling	Final value
Working values		

Diagram 2



Shortest time:

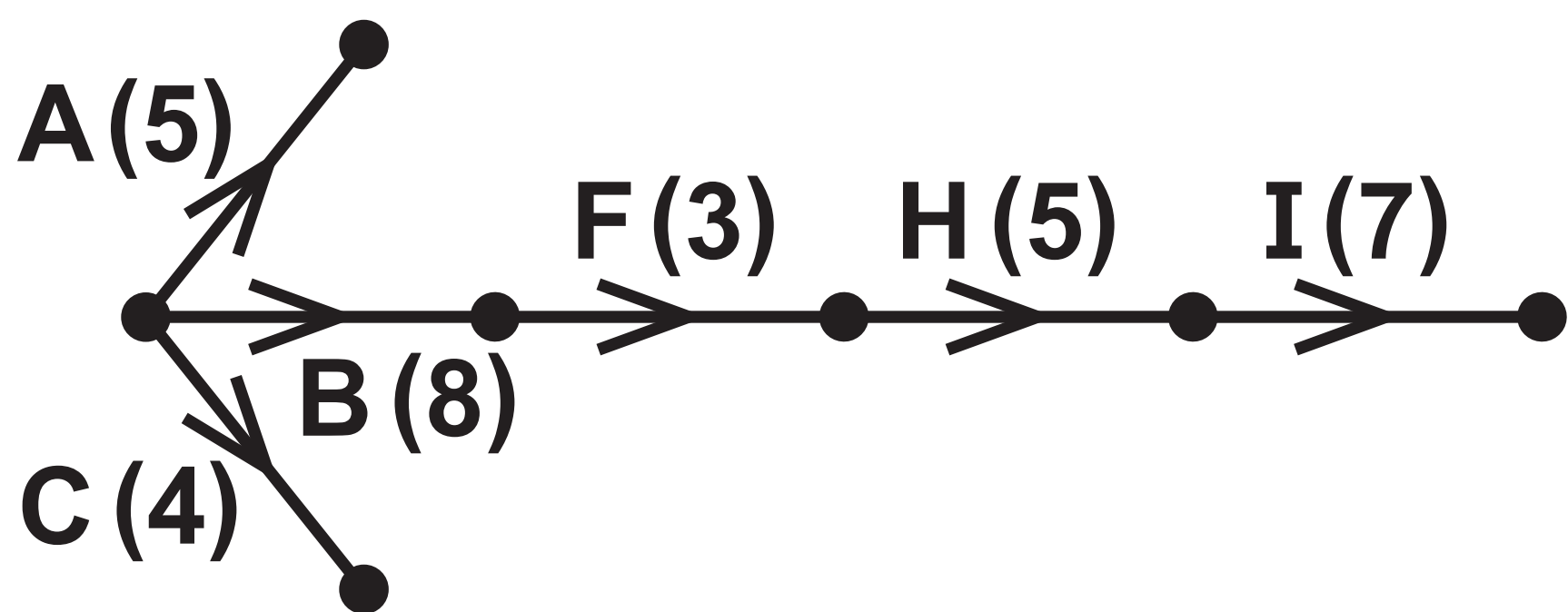
Quickest route:

Table 1

Activity	Time taken (days)	Immediately preceding activities
A	5	–
B	8	–
C	4	–
D	14	A
E	10	A
F	3	B, C, E
G	7	C
H	5	D, F, G
I	7	H
J	9	H

Table 1

Activity	Time taken (days)	Immediately preceding activities
A	5	–
B	8	–
C	4	–
D	14	A
E	10	A
F	3	B, C, E
G	7	C
H	5	D, F, G
I	7	H
J	9	H



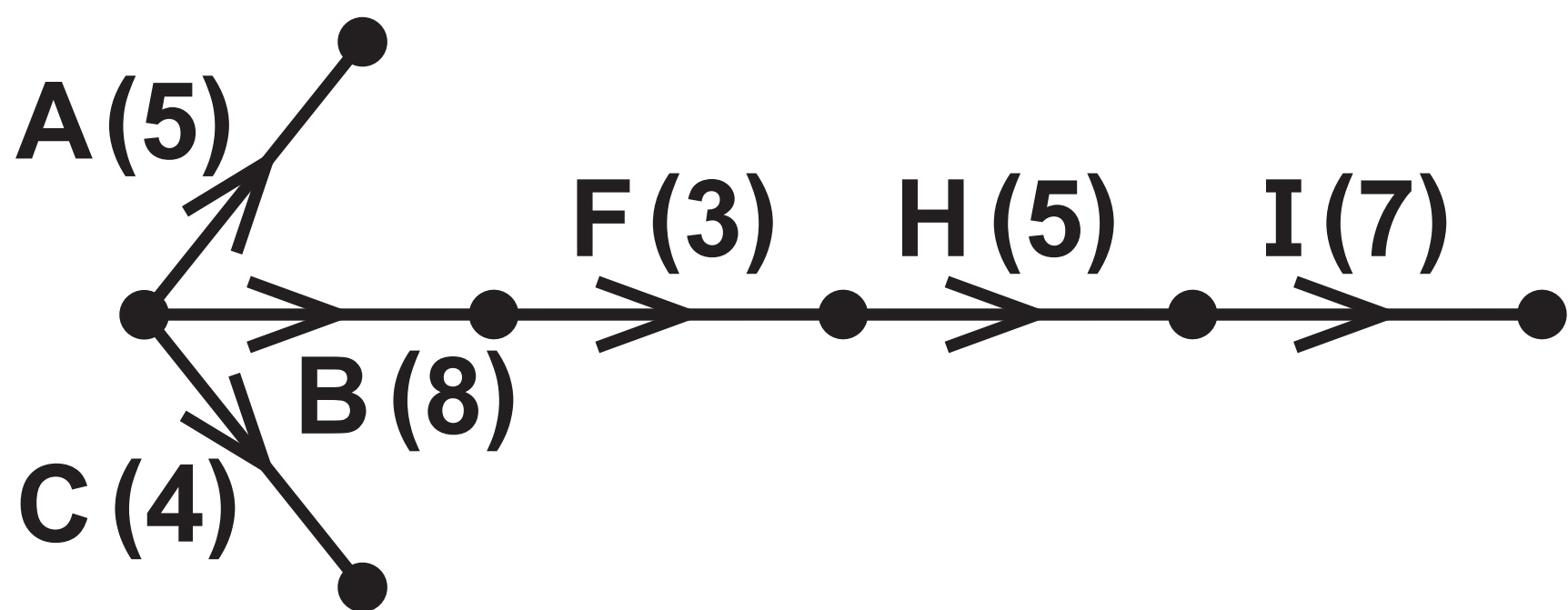


Diagram 4

Key:

Early event time
Late event time

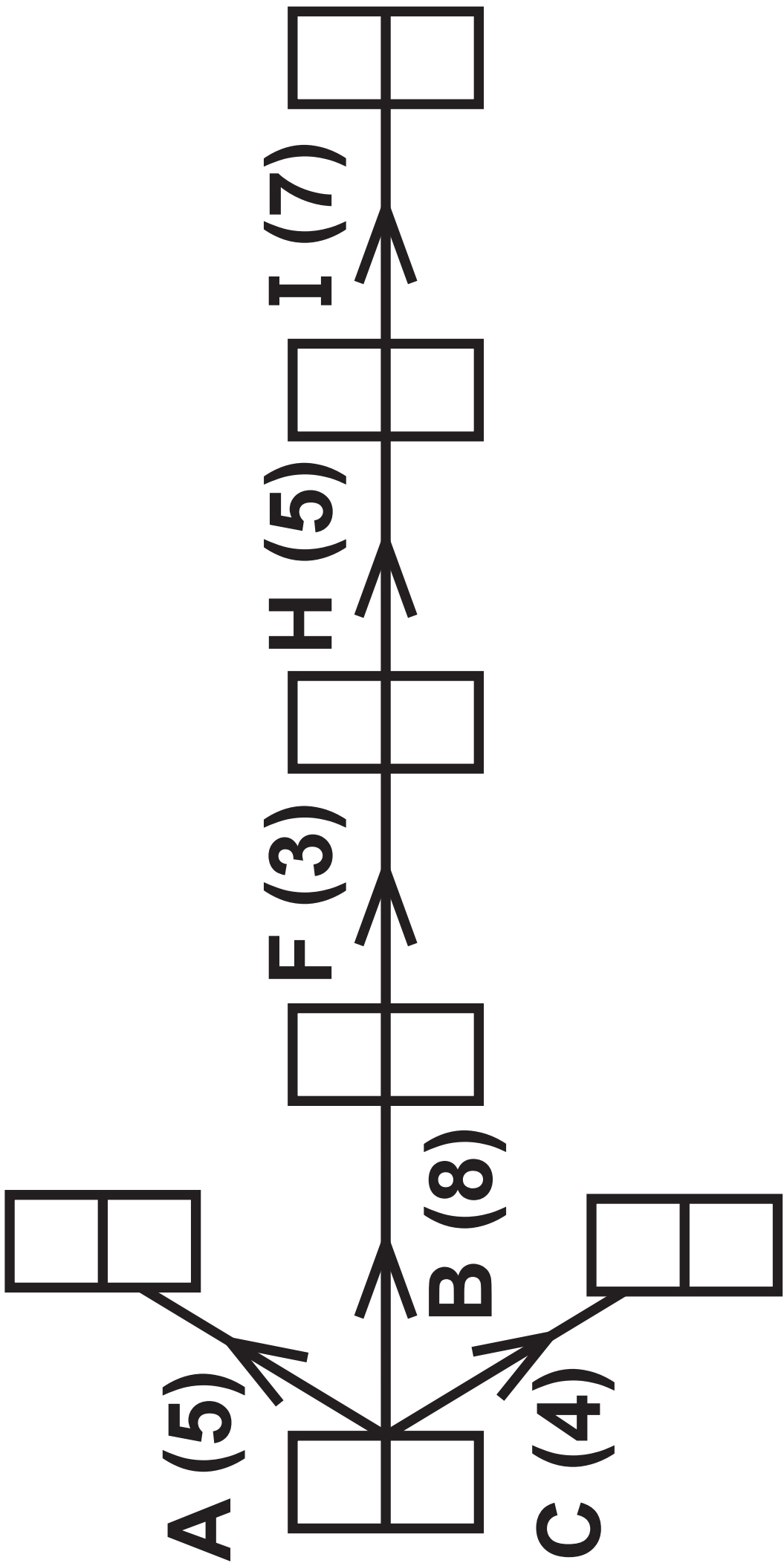


Diagram 4

Key:

Early event time
Late event time

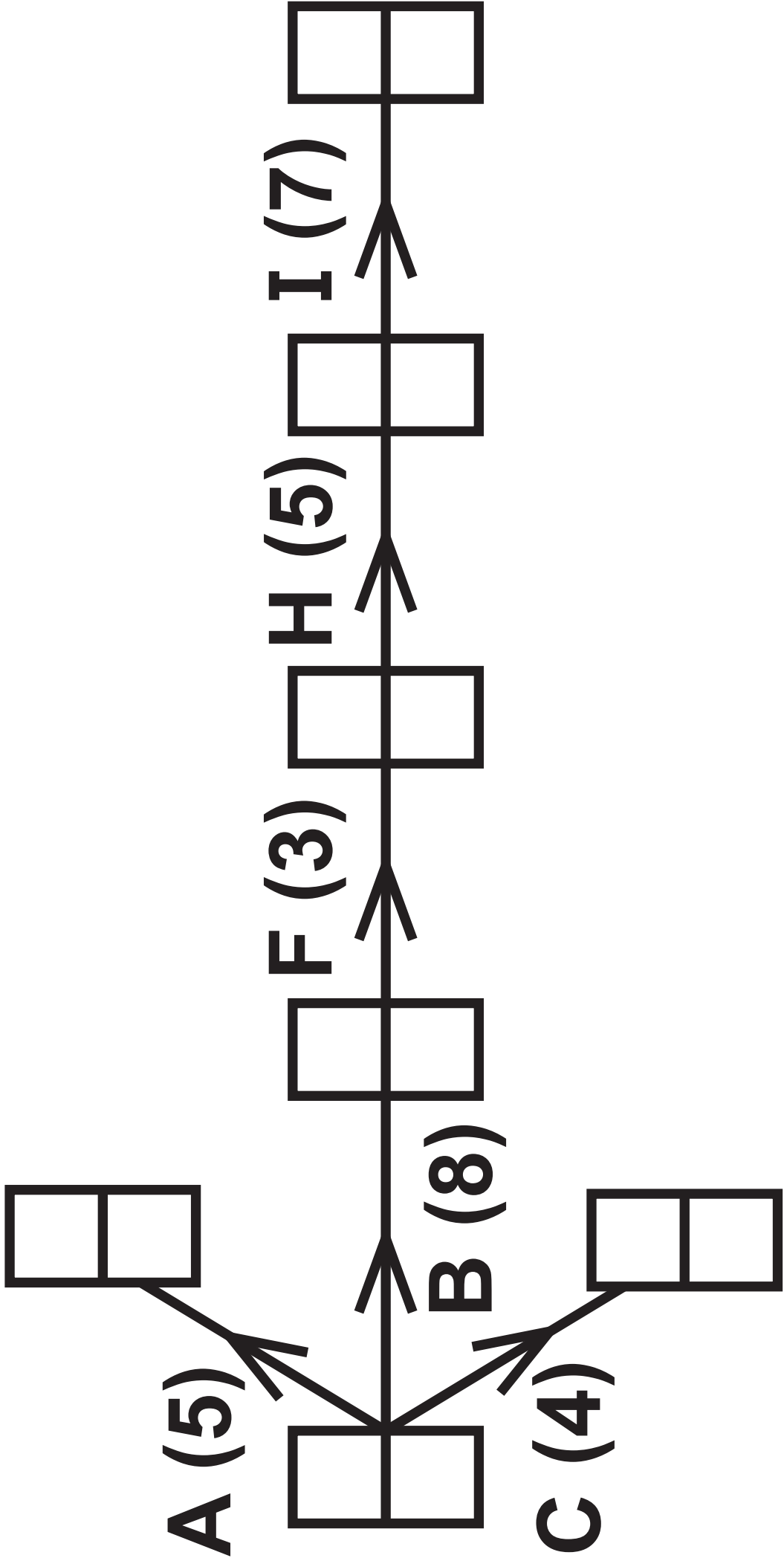


Diagram 5

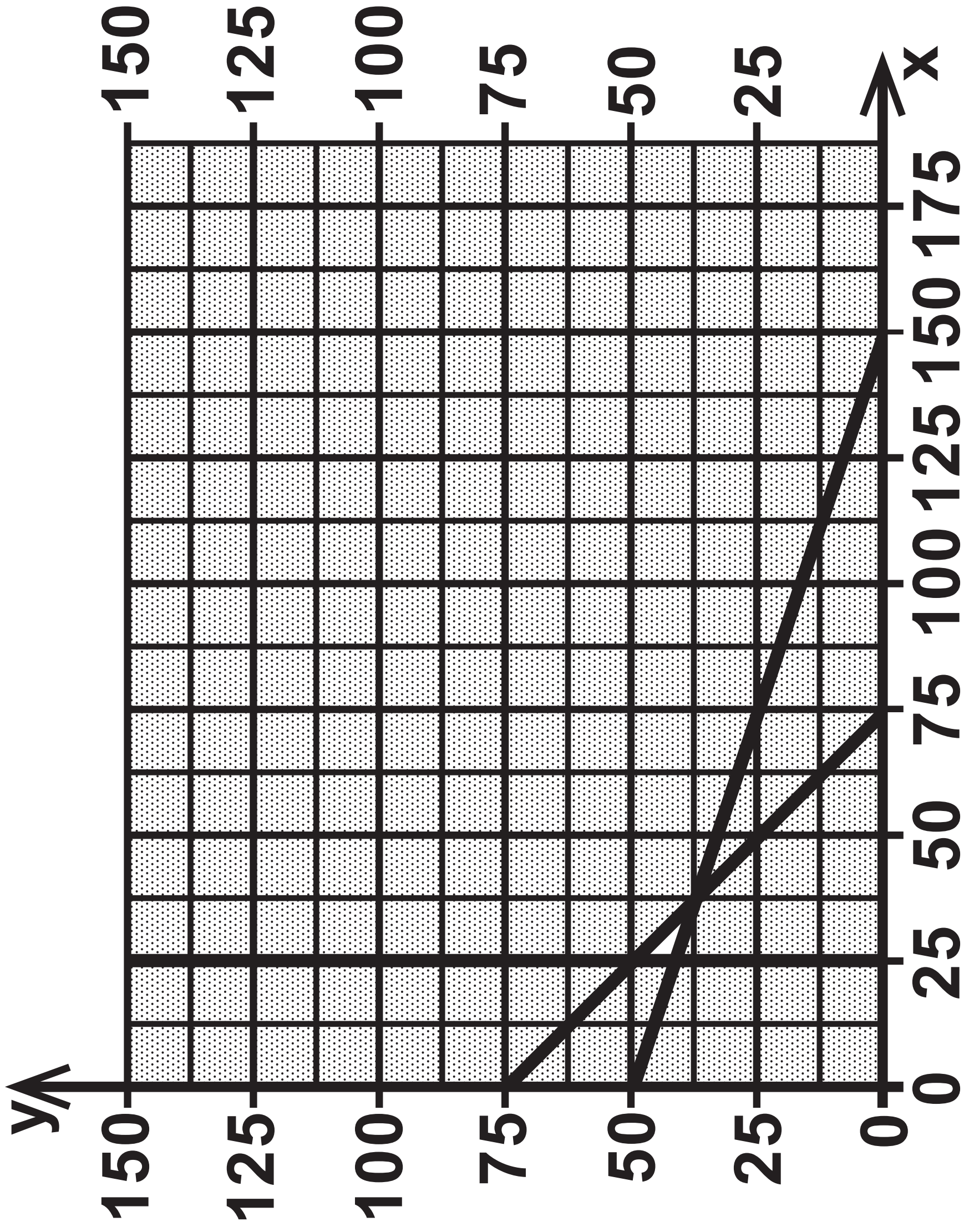


Diagram 5

