

**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.**

<b>Surname</b>					
<b>Other names</b>					
<b>Centre Number</b>					
<b>Candidate Number</b>					

## 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 1

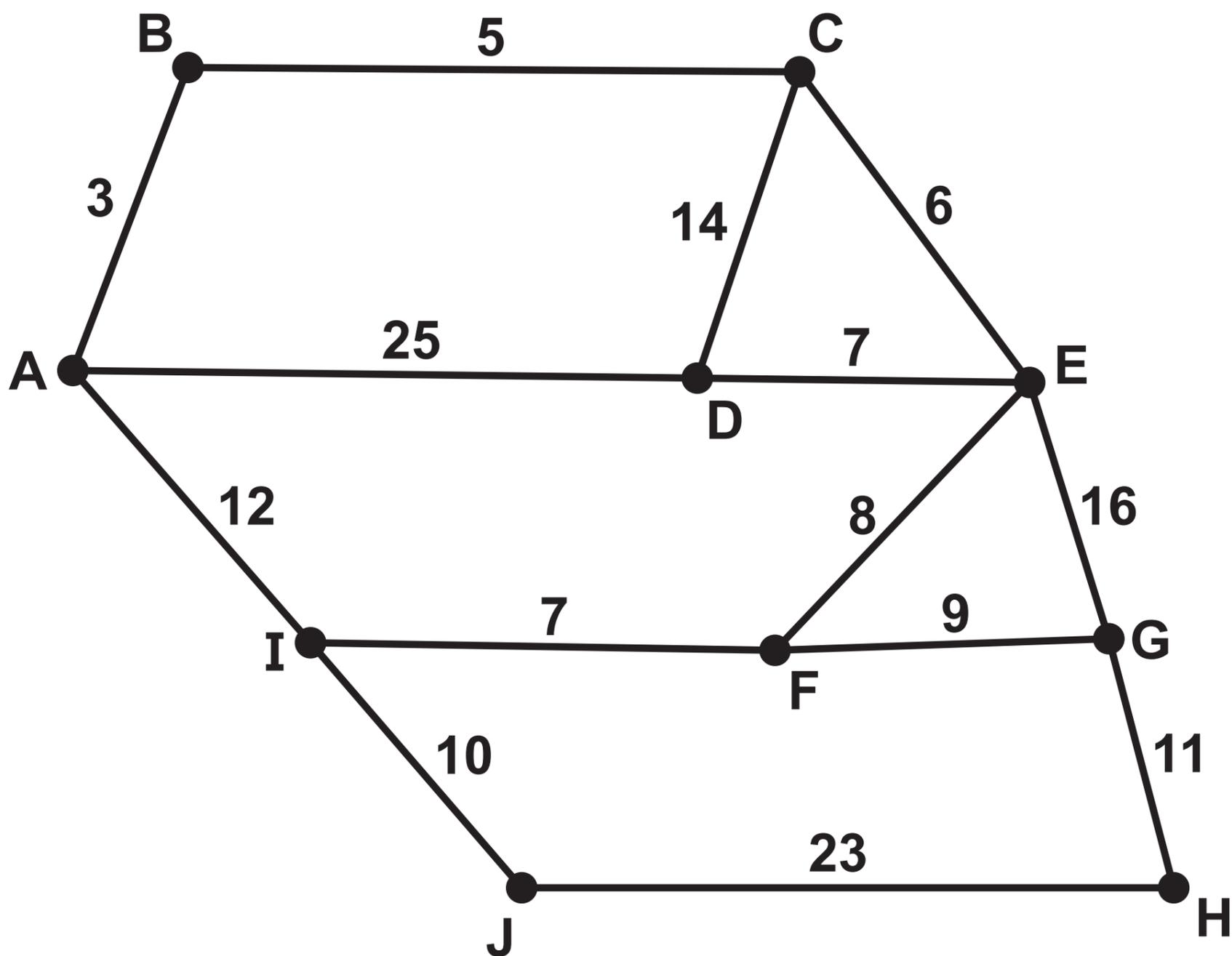


Diagram 1

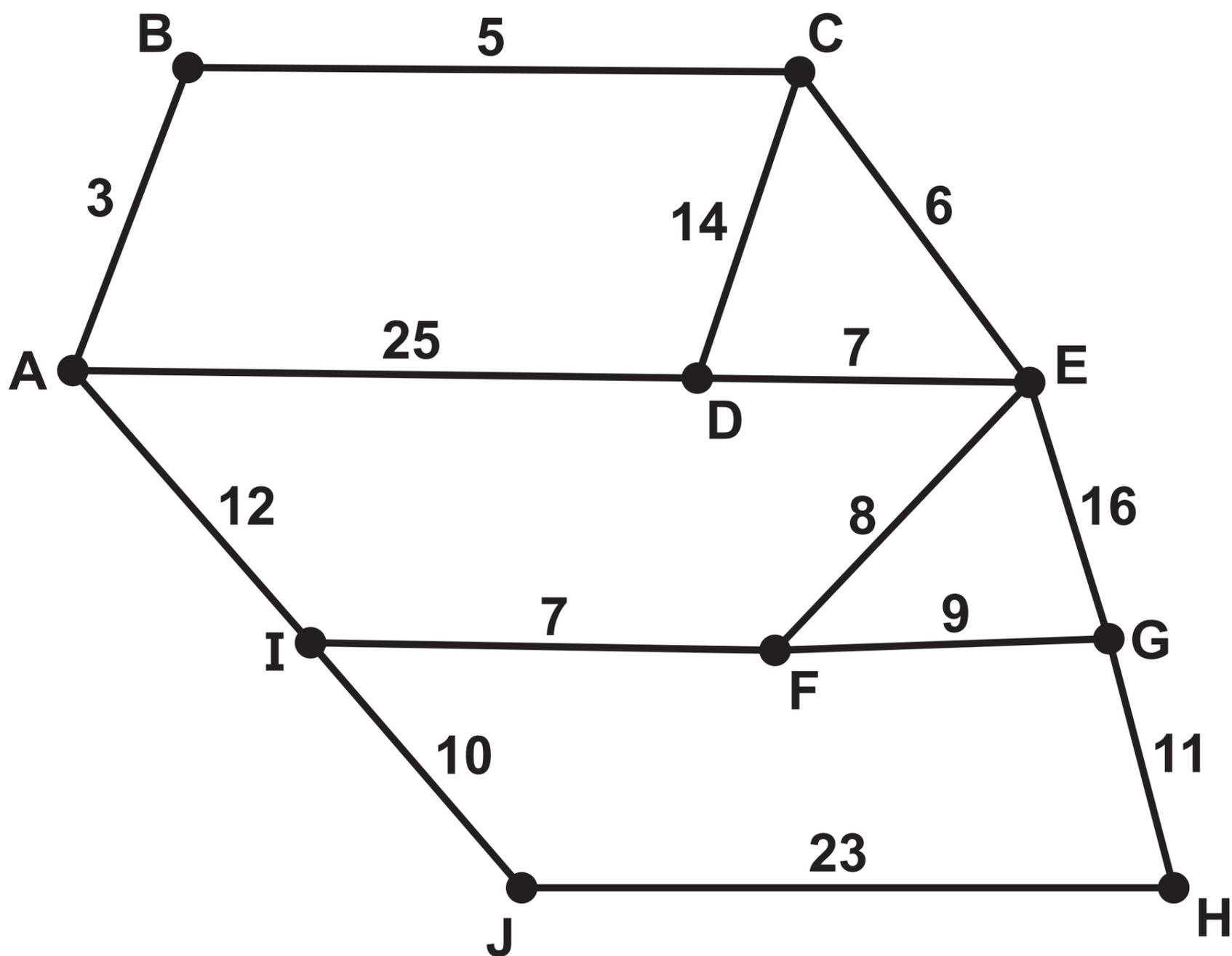
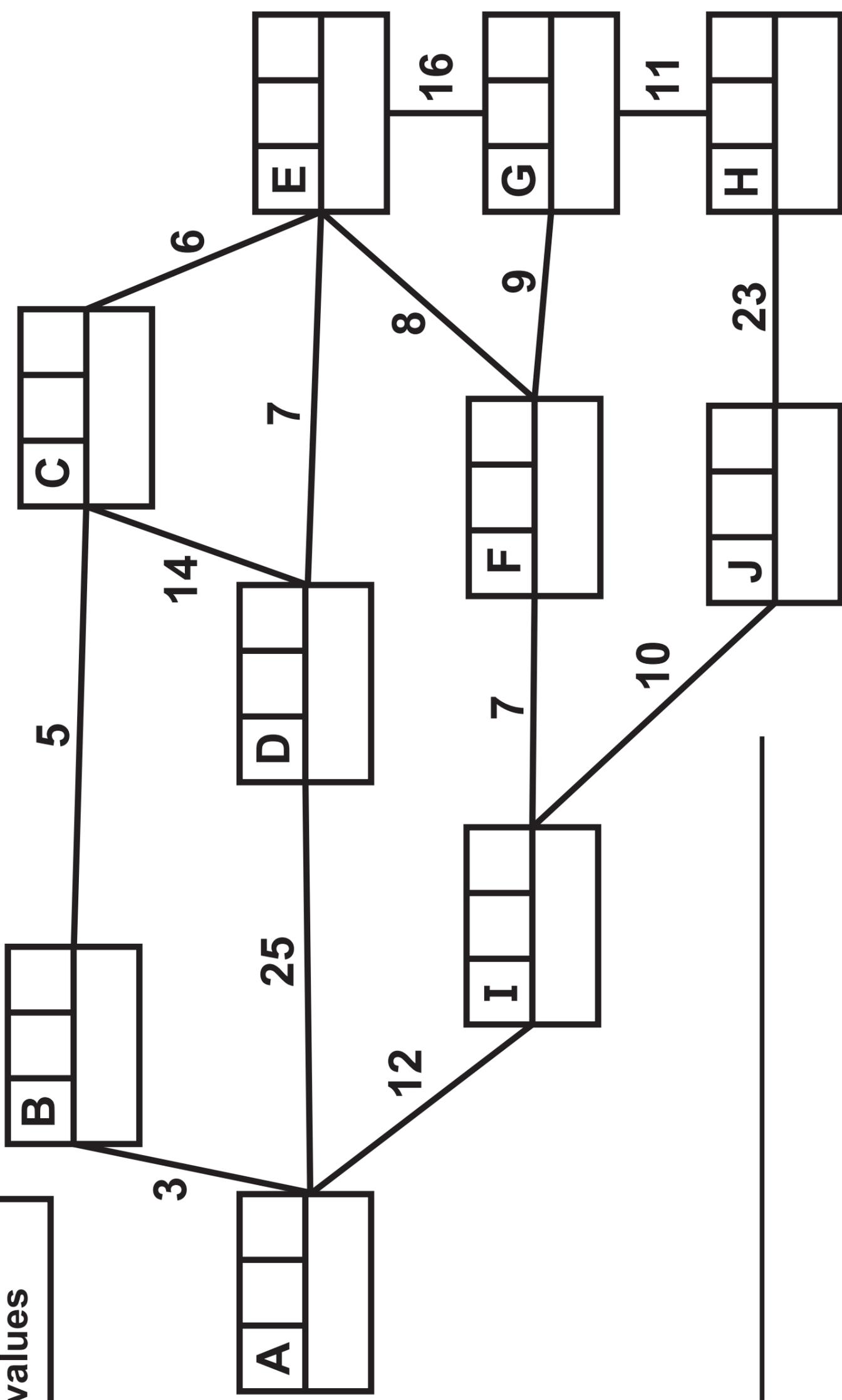


Diagram 2

Key:

Vertex	Order of labelling	Final value
Working values		



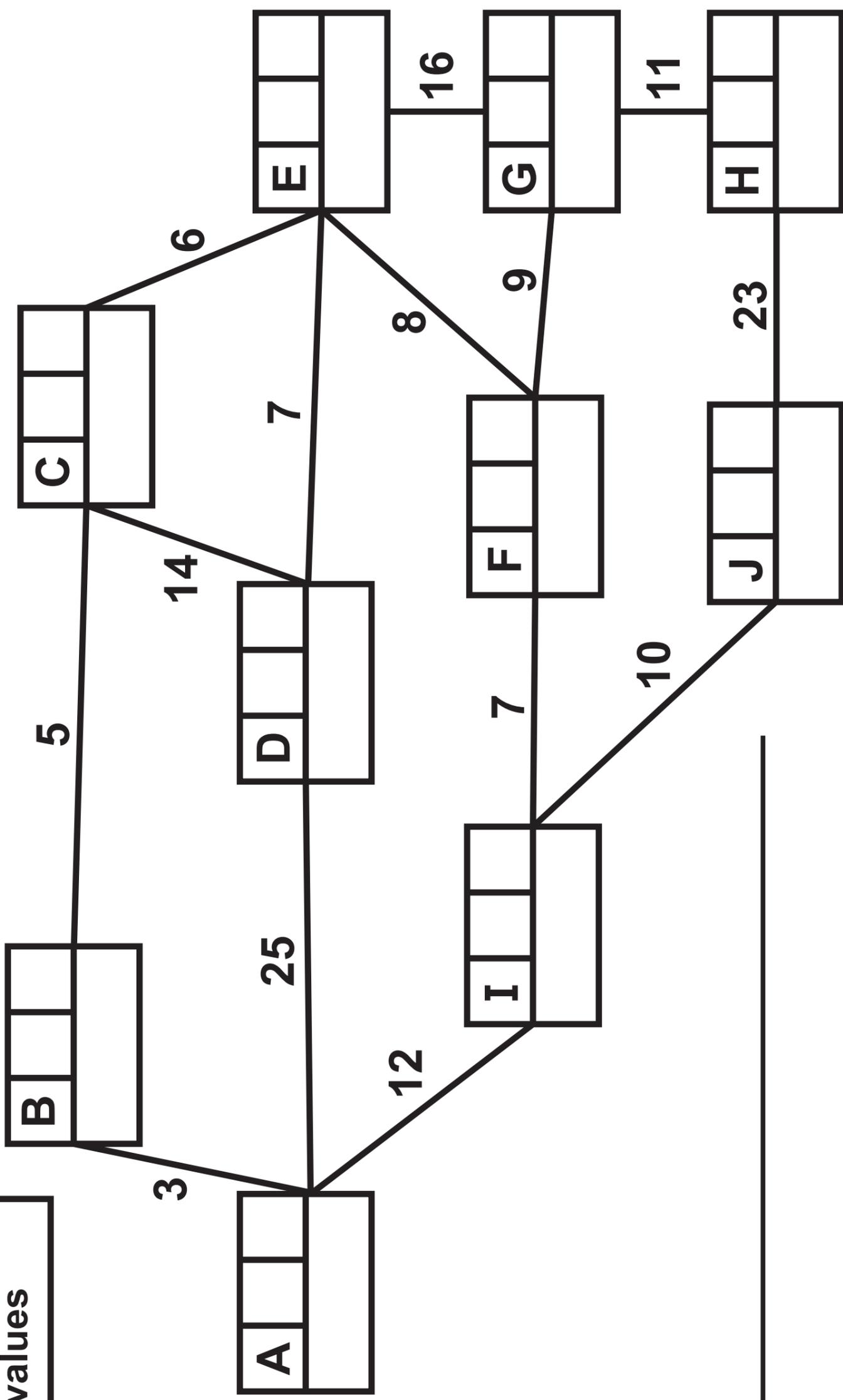
Shortest time: \_\_\_\_\_

Quickest route: \_\_\_\_\_

Diagram 2

Key:

Vertex	Order of labelling	Final value
Working values		



Shortest time: \_\_\_\_\_

Quickest route: \_\_\_\_\_

Table 1

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

Table 1

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

Diagram 3

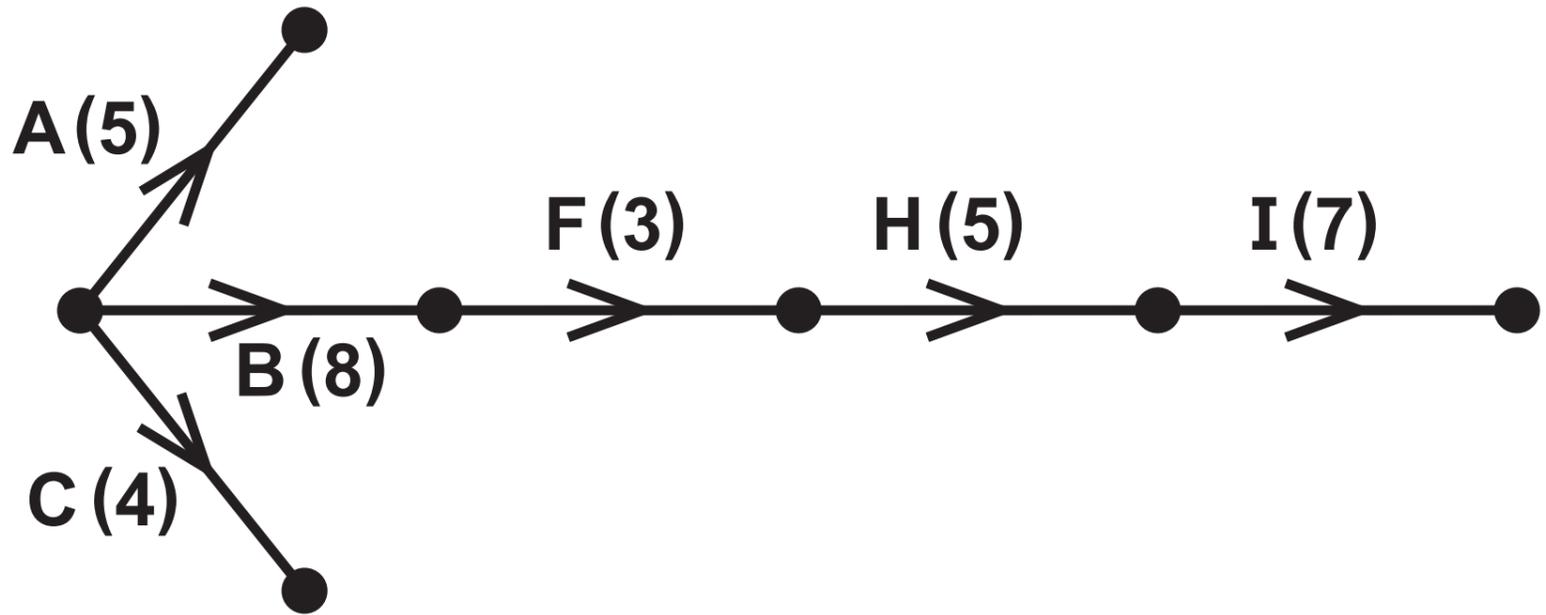


Diagram 3

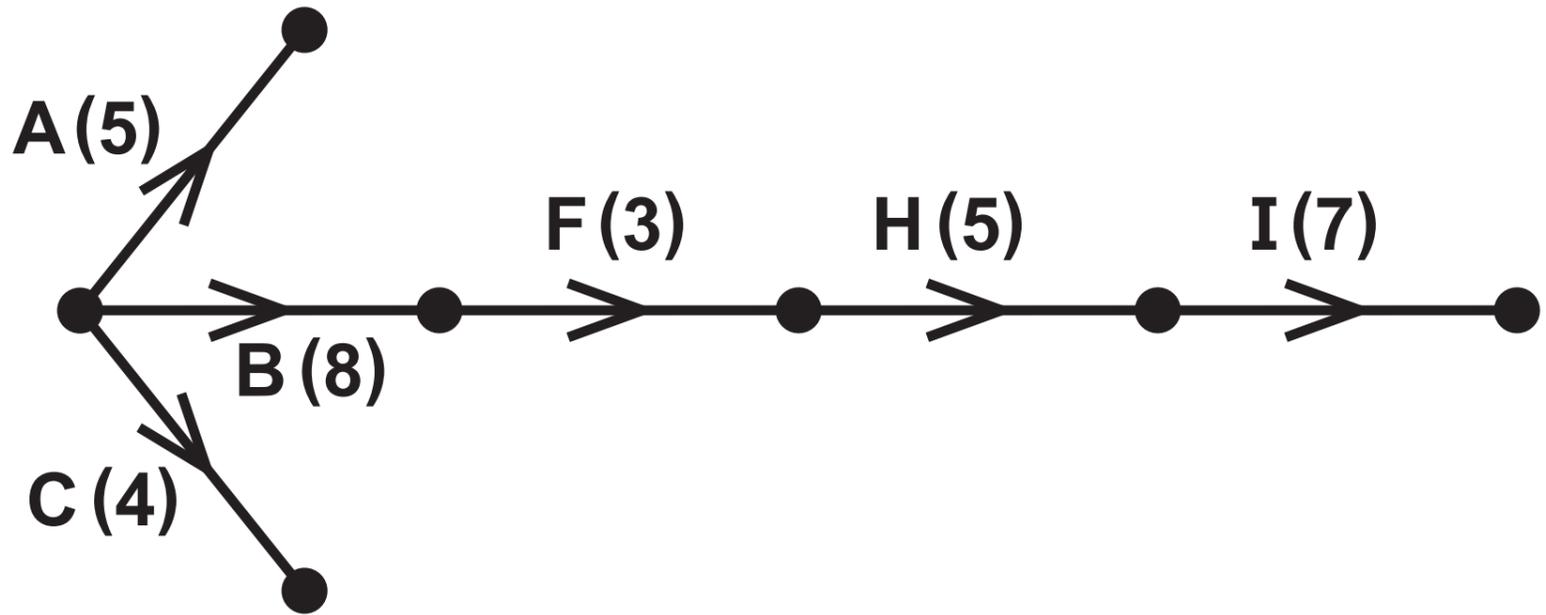


Diagram 4

Key:

Early event time
Late event time

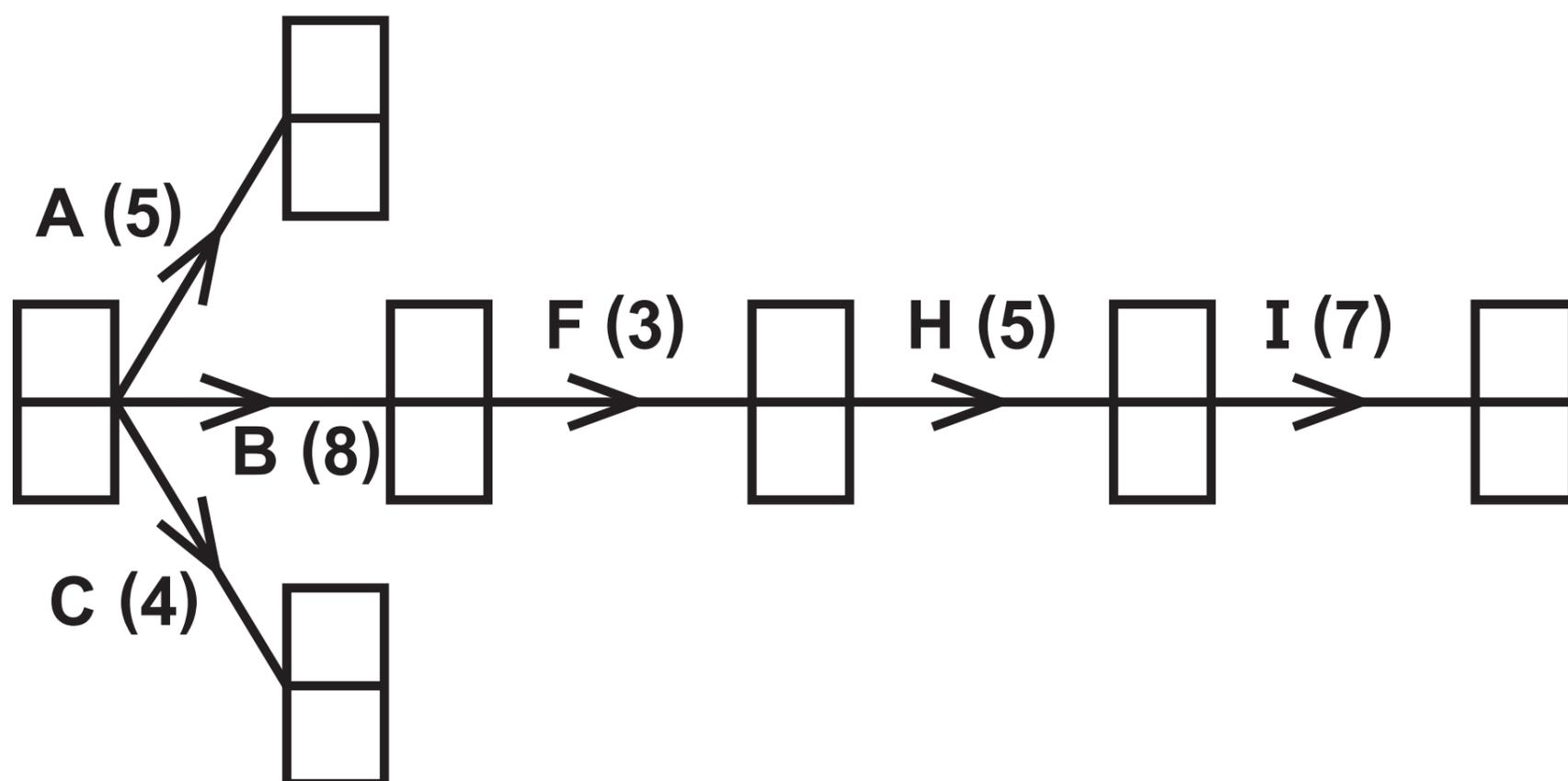


Diagram 4

Key:

Early event time
Late event time

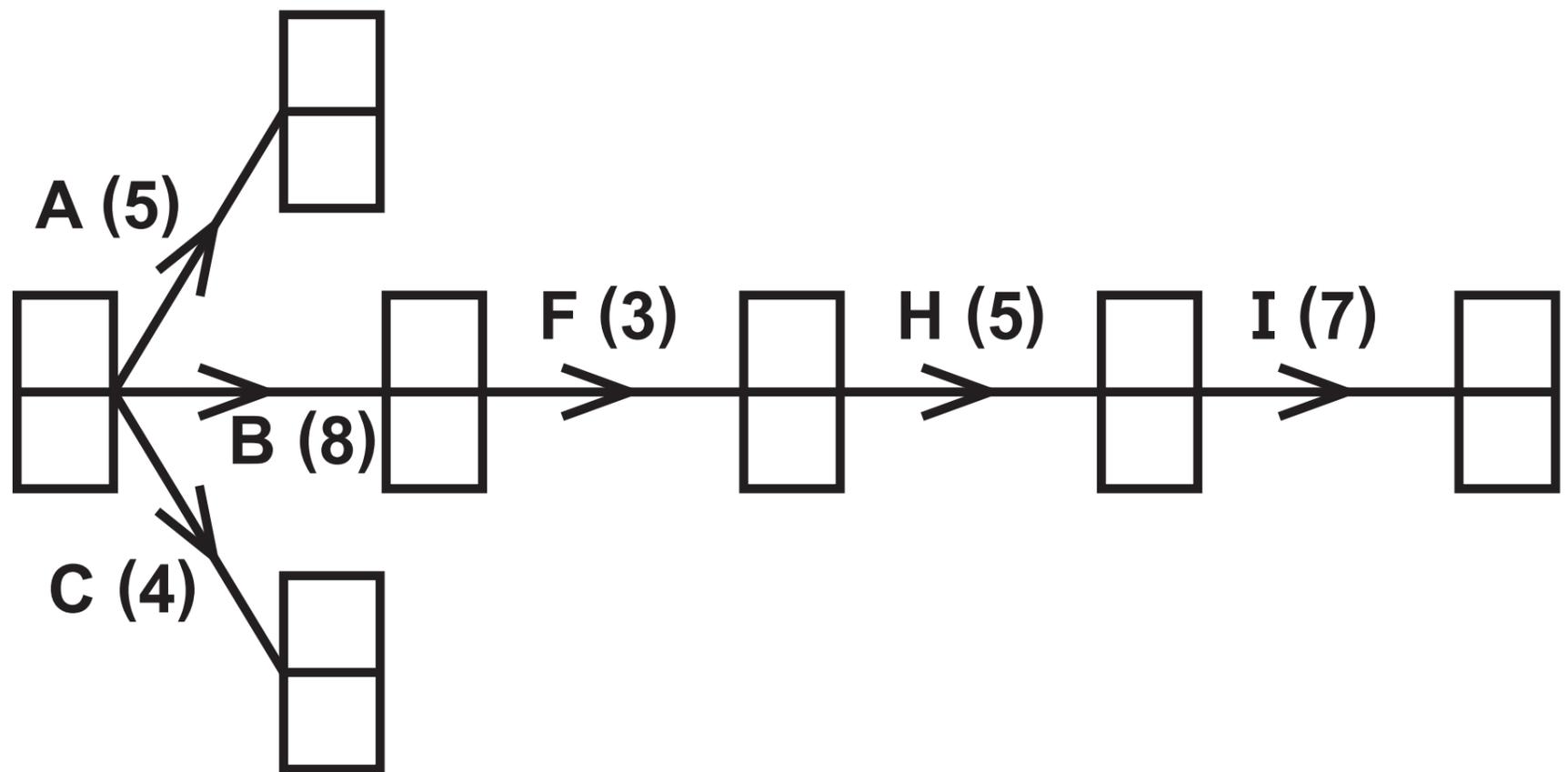


Diagram 5

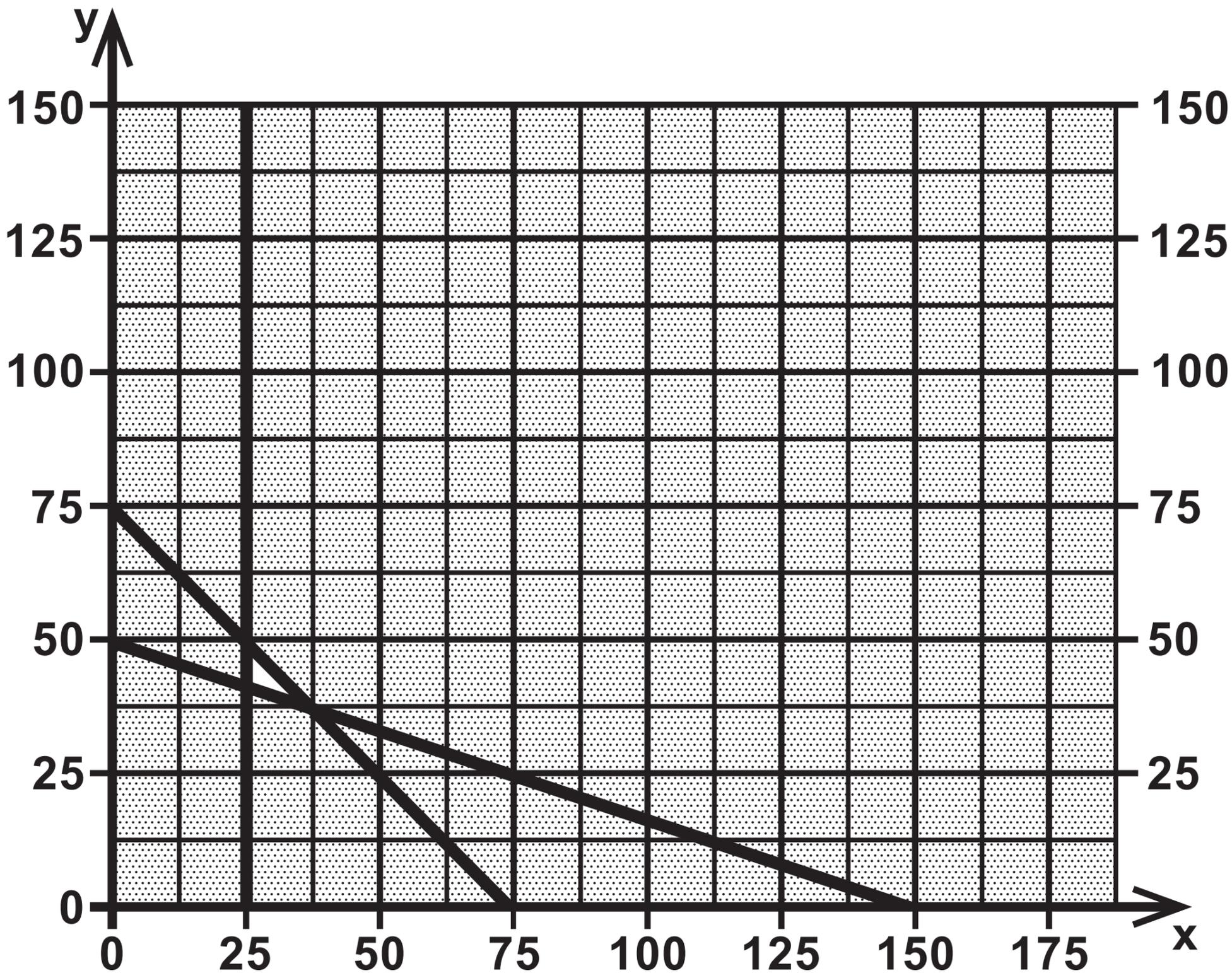


Diagram 5

