**5** A dining table has been manufactured from lengths of wood. **Figure 4** shows a cross sectional view of two of the table legs.

A

B

Figure 4 Cross sectional view of two of the table legs

Describe how the dining table in **Figure 4** could be manufactured using manual woodworking techniques.

In your answer, you should:

* Determine the length AB shown in **Figure 4**
* Calculate the minimum total length of a single piece of wood required to manufacture the four legs of the table, assuming no wastage from the cutting processes. Ignore blade thickness for the purpose of the calculation.
* Refer to the tools and processes used in the different stages of manufacture.

 **[14 marks]**