8.
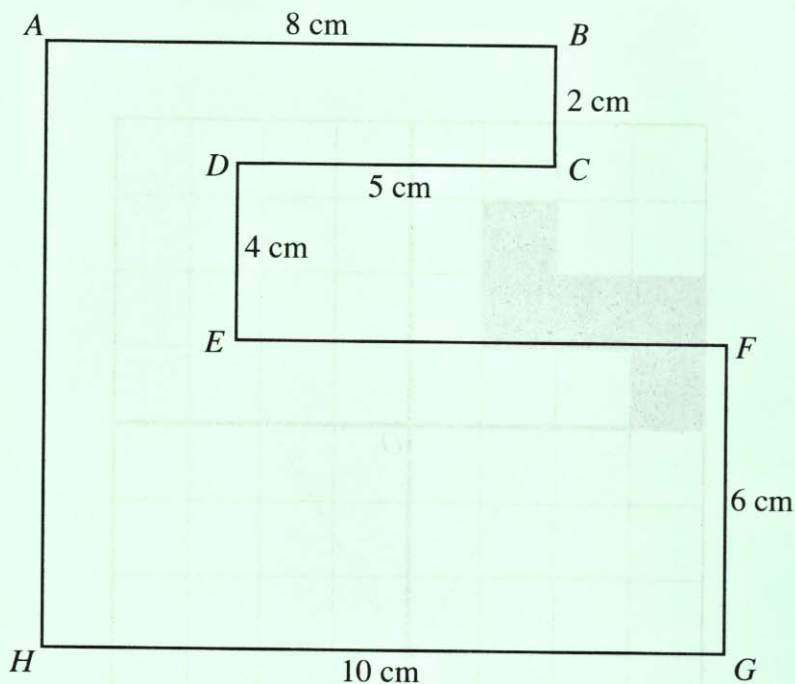

Diagram not drawn to scale.

(a) Calculate the perimeter of the shape *ABCDEFGH* stating clearly the units of your answer.
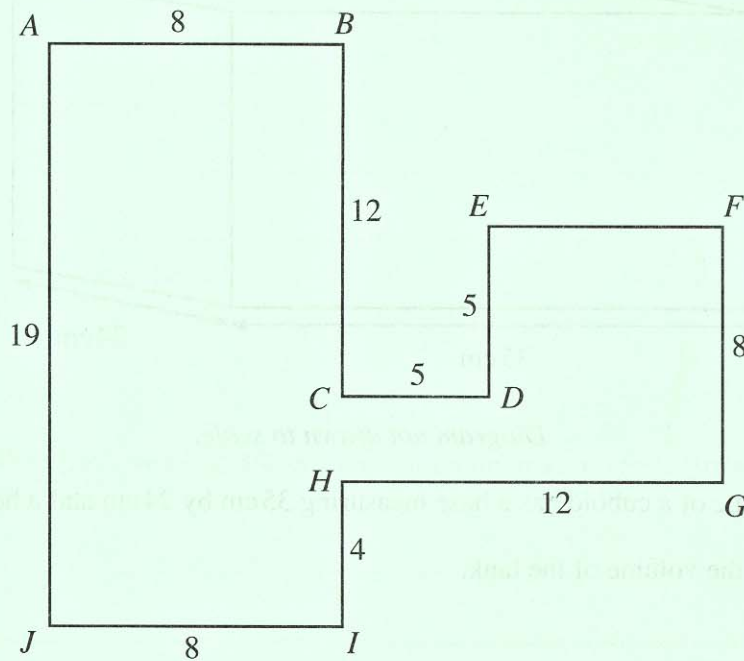
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[2]

(b) Calculate the area of the shape *ABCDEFGH* stating clearly the units of your answer.

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[3]

7. In the diagram below, lengths are shown in centimetres and the angles are right-angles.

Diagram not drawn to scale.

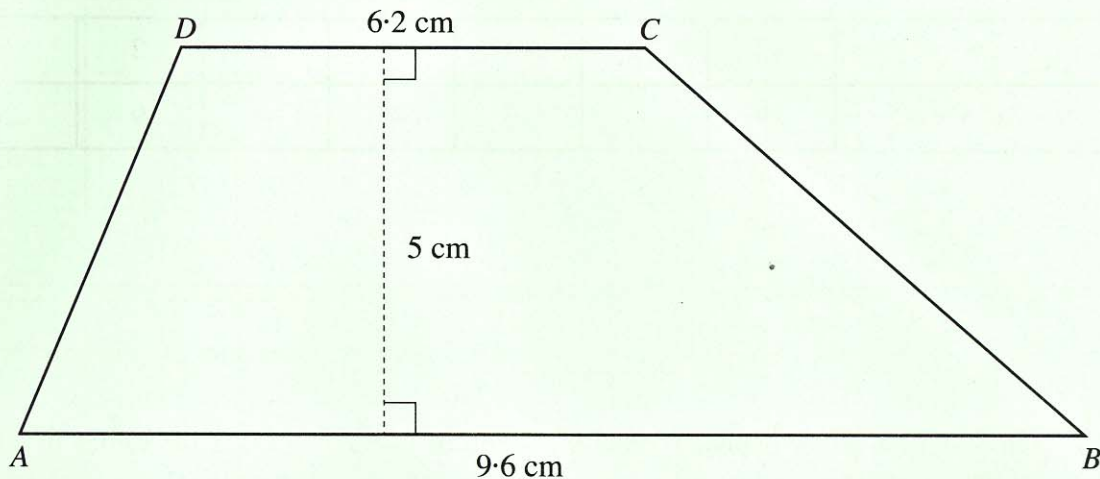*(a)* Calculate the perimeter of the shape, clearly stating the units of your answer.

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(b) Calculate the area of the shape, clearly stating the units of your answer.

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[2]

13. A metal bar has a uniform cross-section in the shape of a trapezium *ABCD* in which *AB* is parallel to *DC*. The length of *AB* is 9·6 cm and the length of *DC* is 6·2 cm. The perpendicular distance between the two parallel sides is 5 cm.
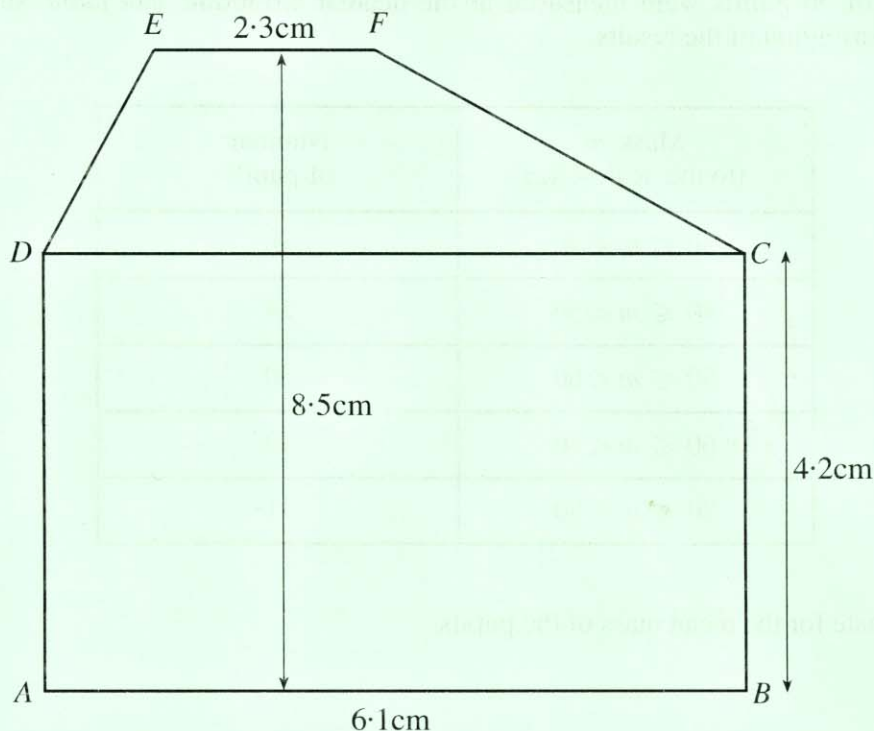

Diagram not drawn to scale.

(a)   Calculate the area of the cross-section of the metal bar, stating clearly the units of your answer.

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[3]

16.

Diagram not drawn to scale.

ABCFED represents the uniform cross-section of a solid block of material. *ABCD* is a rectangle in which *AB* = 6·1 cm and *BC* = 4·2 cm. *EF* is of length 2·3 cm and is parallel to *AB*. The distance between *EF* and *AB* is 8·5 cm.

(*a*)   Calculate the area of cross-section of the block.

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[3]