

Candidates answer on the Question Paper.

No Additional Materials are required.

To be taken together with Paper 1 in one session of 2 hours 15 minutes.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in. Write in blue or black pen. You may use a soft pencil for any diagrams, graphs or rough working. Do not use staples, paper clips, highlighters, glue or correction fluid. DO **NOT** WRITE IN ANY BARCODES.

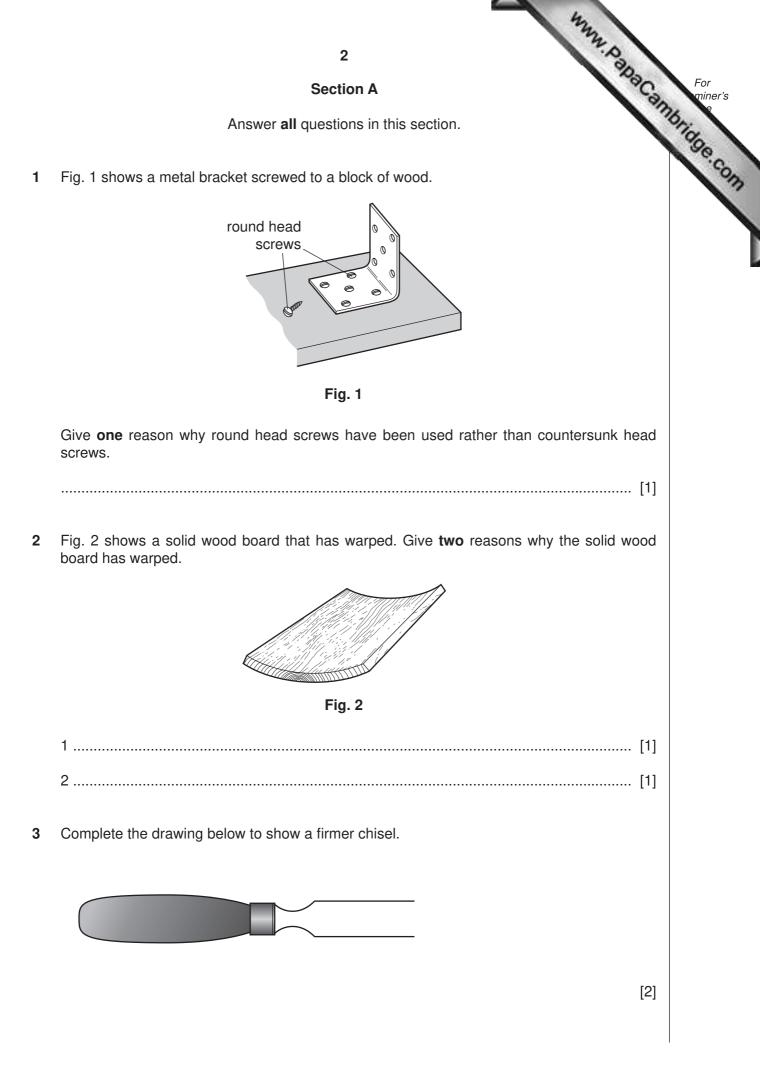
Section A Answer all questions in this section. Section B Answer one question in this section.

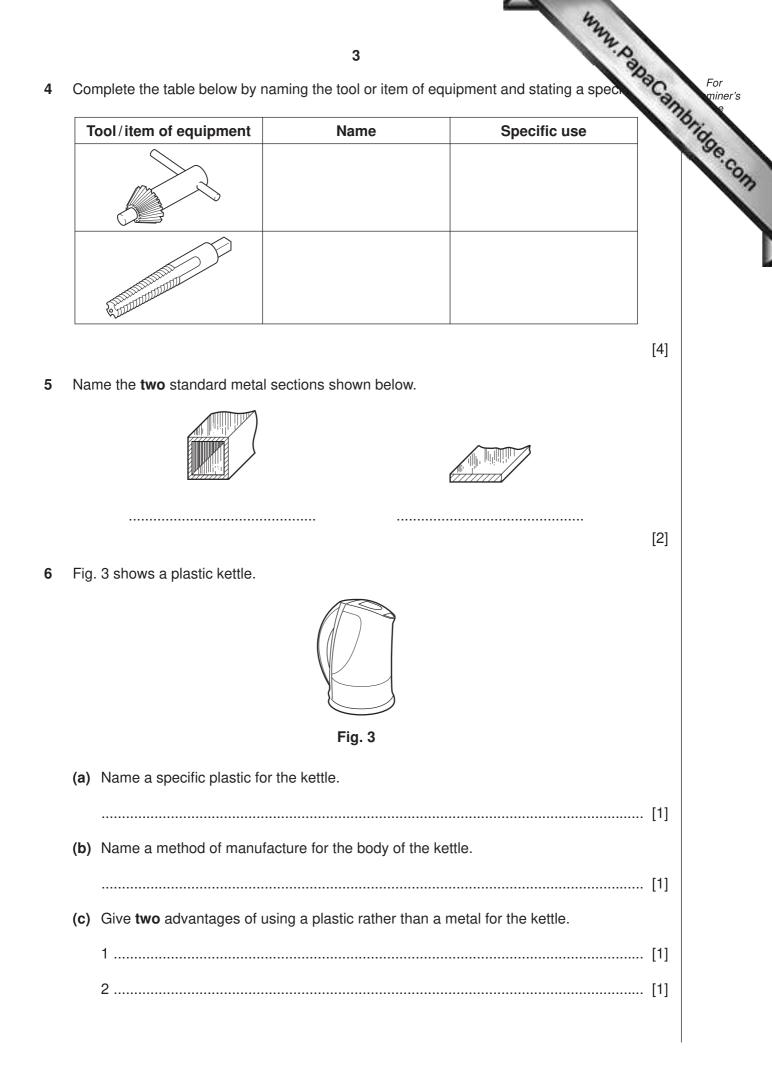
You may use a calculator.

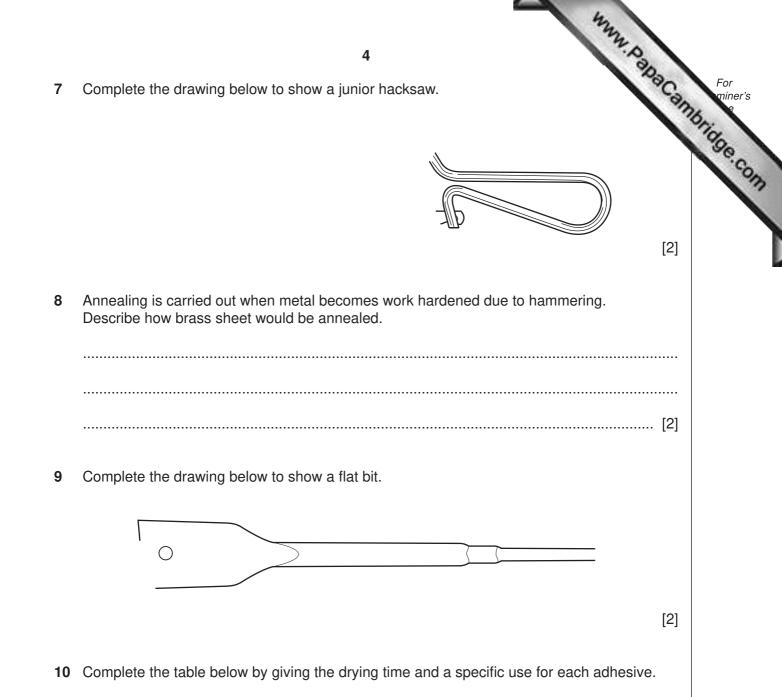
The total of the marks for this paper is 50. The number of marks is given in brackets [] at the end of each question or part question.

For Examiner's Use	
Section A	
Section B	
Total	

This document consists of **15** printed pages and **1** blank page.

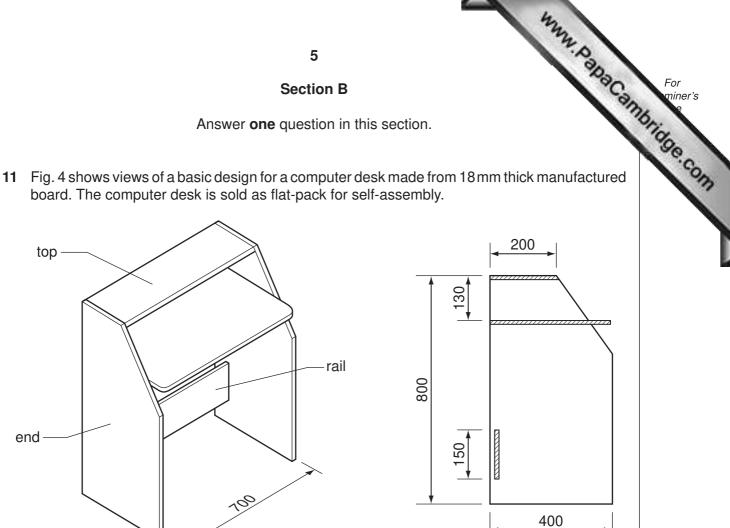






Adhesive	Drying time	Specific use
PVA		
Synthetic Resin		

[4]





(a)	Name two suitable manufactured boards that could be used for the computer desk.	
	1	
	2	
(b)	State two advantages of using manufactured board rather than solid wood for the computer desk.	
	1[1]	
	2[1]	
(c)	Give two reasons why flat-pack furniture is very popular with consumers.	
	1[1]	
	2	

 Image: delta delt

Fig. 5

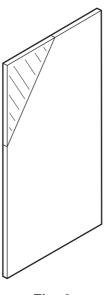
(i) Use sketches and notes to show how the cam lock could be used to join the top to one end of the computer desk.

[3]

(ii) Use sketches and notes to show how the corner block could be used to join the rail to one end of the computer desk.

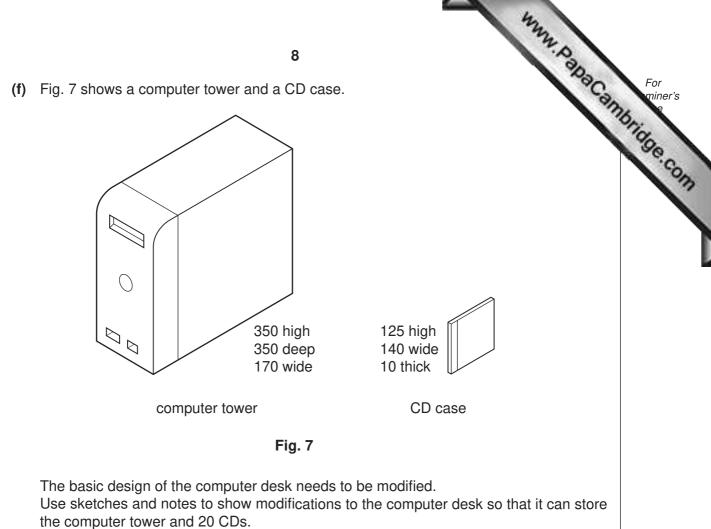
www.papaCambridge.com (e) Fig. 6 shows one end of the computer desk marked out, ready to be cut to shape

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- (i) Name a portable power saw that could be used to saw off the waste wood.[1] (ii) State one safety precaution you would take when using the saw named in (i).[1]
- (iii) Use sketches and notes to show how the sawn edge would be planed flat. Name the type of plane used and the method of holding the manufactured board.



Include details of materials, constructions and fittings used.

- If so a shows a signboard that could be attached to an office dor.

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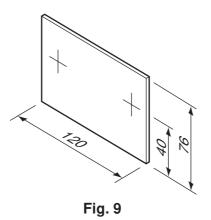
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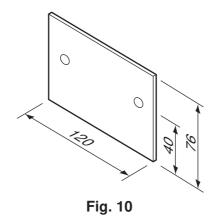
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 - (b) Fig. 9 shows the aluminium blank from which the holder will be made.



Complete the table below by naming **one** tool used for each process.

Stage	Process	ΤοοΙ
1	Mark out blank on sheet of aluminium	
2	Cut out blank	
3	Make edges flat	
4	Mark out centres for holes	
5	Drill holes	
6	Clean surface of blank	

www.papaCambridge.com (c) Fig. 10 shows a pre-drilled aluminium blank ready to be bent to shape for the hold



Use sketches and notes to show a design for a bending jig that could be used to produce ten identical holders. The jig must use both 5 mm diameter holes to locate the blanks. Describe clearly how the jig would be used.

- www.papacambridge.com 11 (d) Use sketches and notes to show a modification to the signboard that will stop the falling out of the holder during use. [2] (e) Describe the stages involved in making the slider. Include details to explain how the acrylic rod would be fixed to the slider. _____
- (f) The holder for the signboard could also be made from MDF or acrylic sheet. Use sketches and notes to show how the holder for the sign board could be made from either MDF or acrylic sheet.

www.papacambridge.com 13 Fig. 11 shows a rack used to support garden tools. The rack is made from 19 m softwood.

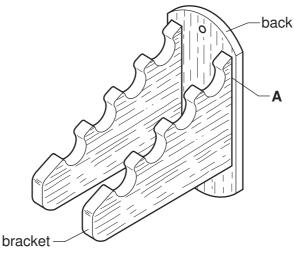


Fig. 11

(a) State three items of research the designer would need to carry out when designing the rack for garden tools.

1	 [1]
2	 [1]
3	 [1]

(b) (i) Use sketches and notes to show a suitable construction used to join the bracket permanently to the back of the rack at **A**.

[3]

(ii) Name the joint you have drawn.

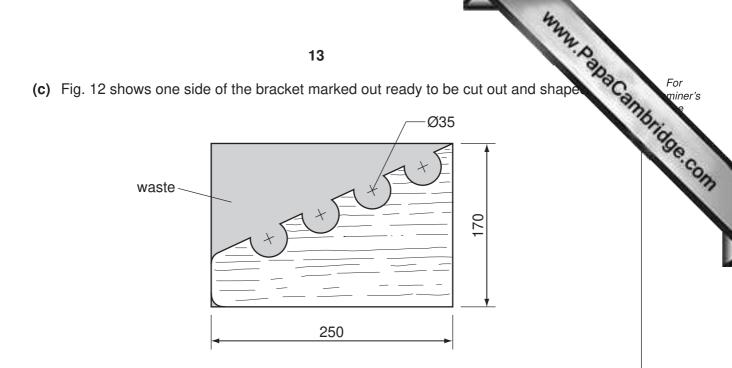
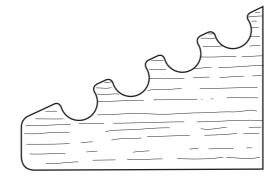


Fig. 12

Use sketches and notes to show how the side of the bracket could be produced.

(d) Fig. 13 shows one side of the bracket cut out.





(i)	Indicate clearly on Fig. 13 one example of 'short grain'. [1]
(ii)	Explain why short grain is a problem that occurs only in solid wood and not in manufactured boards.
(e) (i)	Give two reasons why the rack would need to have an applied finish.
	1
	2
(ii)	Name two suitable finishes, other than paint, for the rack.
	1
	2
(iii)	Describe how the surface would be prepared to take one of the finishes named in (ii) .
	Chosen finish
	[3]

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	15 Marine Day	
(iv)	A finish could be applied before or after the parts of the rack are assembled. State one advantage of applying a finish before the parts are assembled and advantage of applying a finish after the parts are assembled.	For miner's
	Advantage of applying a finish before the parts are assembled	Se.com
	Advantage of applying a finish after the parts are assembled	



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