

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 dark 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.

Section B Answer one question.

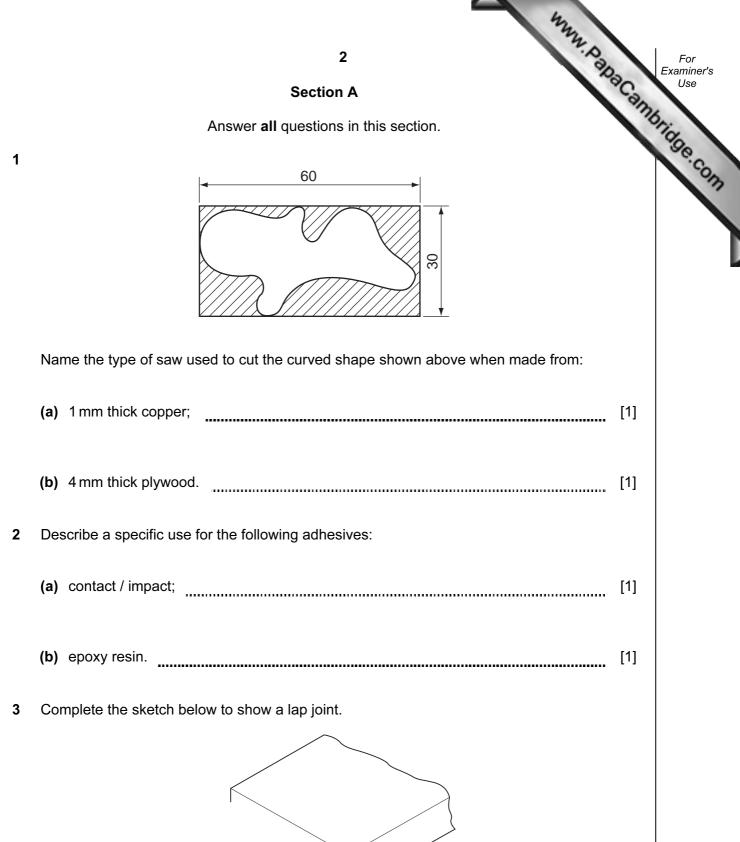
You may use a calculator.

At the end of the examination, fasten all your work securely together. The number of marks is given in brackets [] at the end of each question or part question.

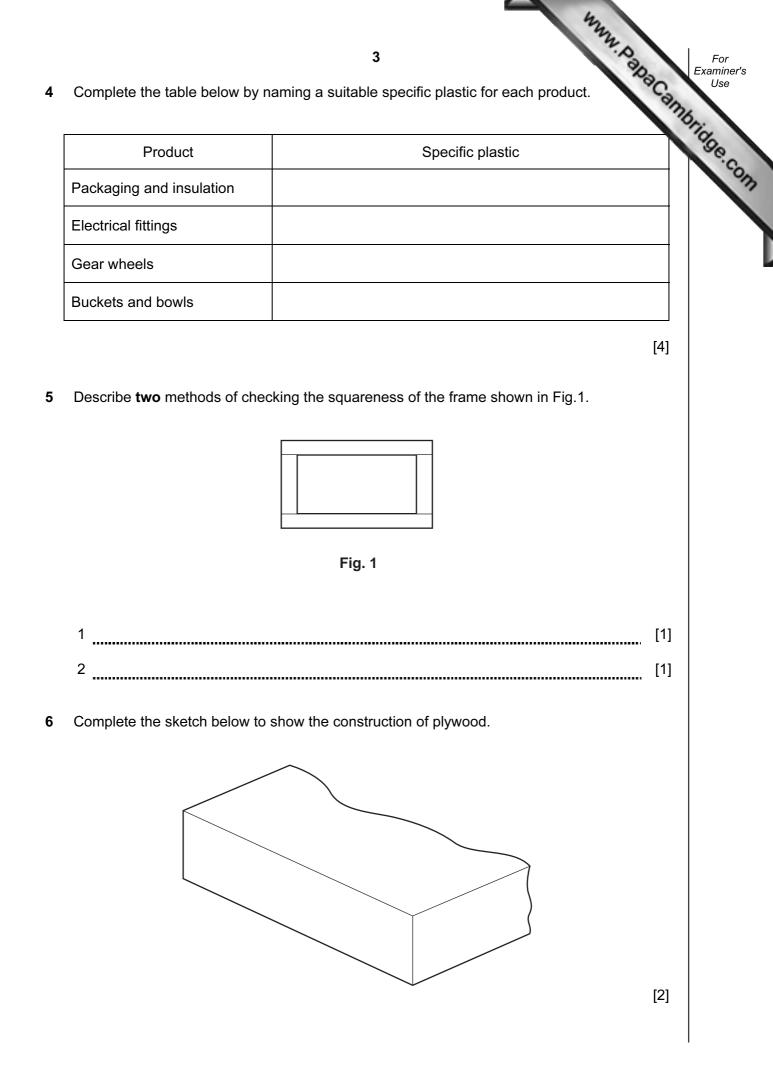
For Exam	iner's Use
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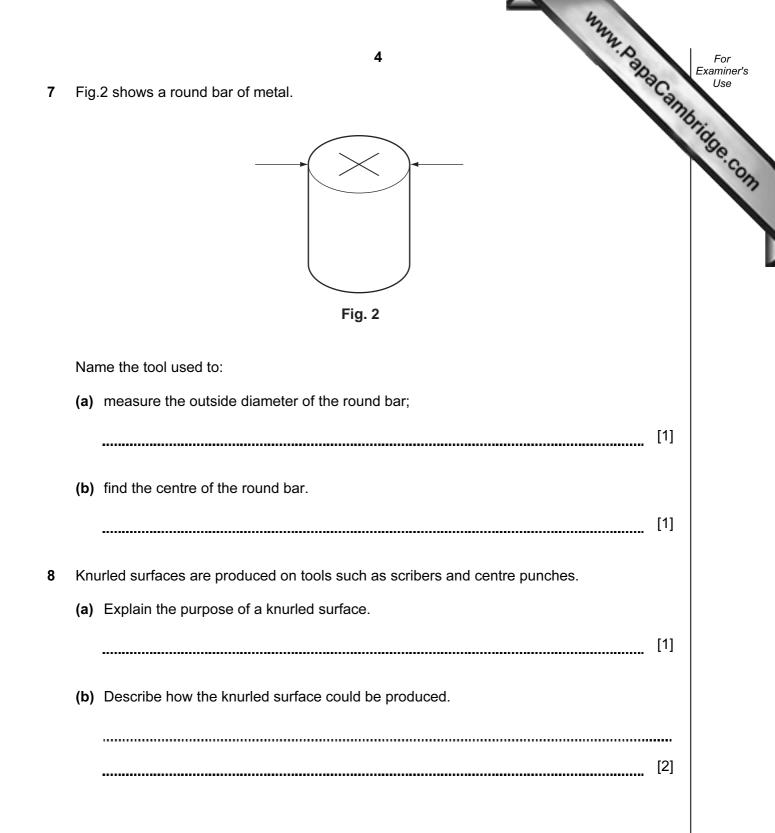
This document consists of **15** printed pages and **1** blank page.

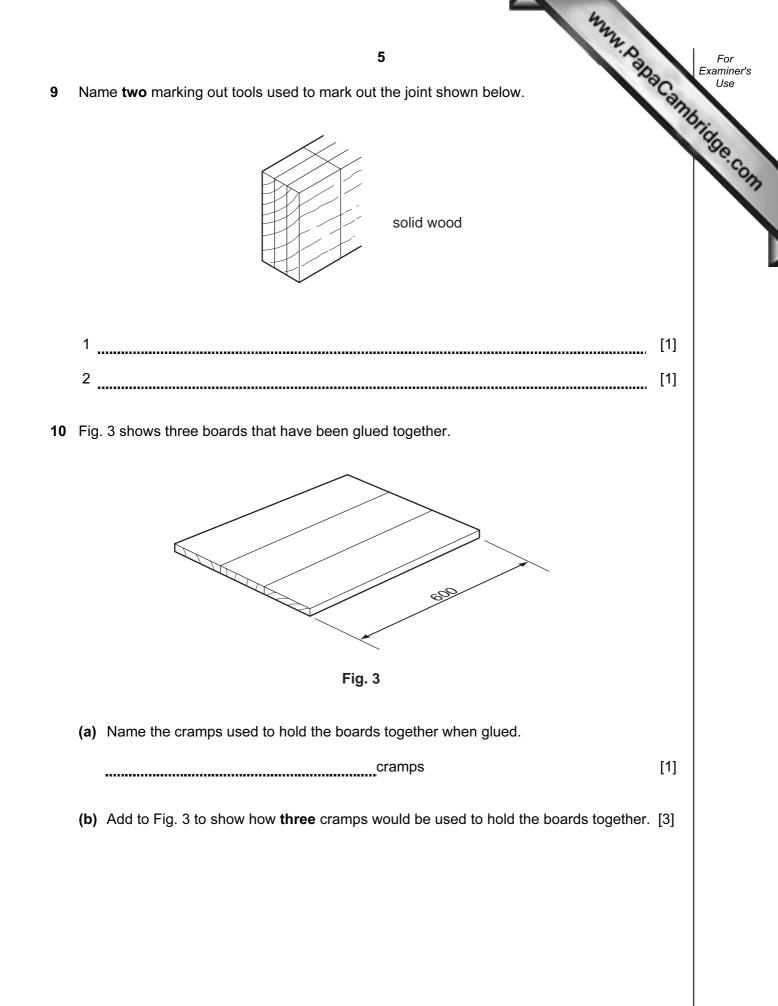


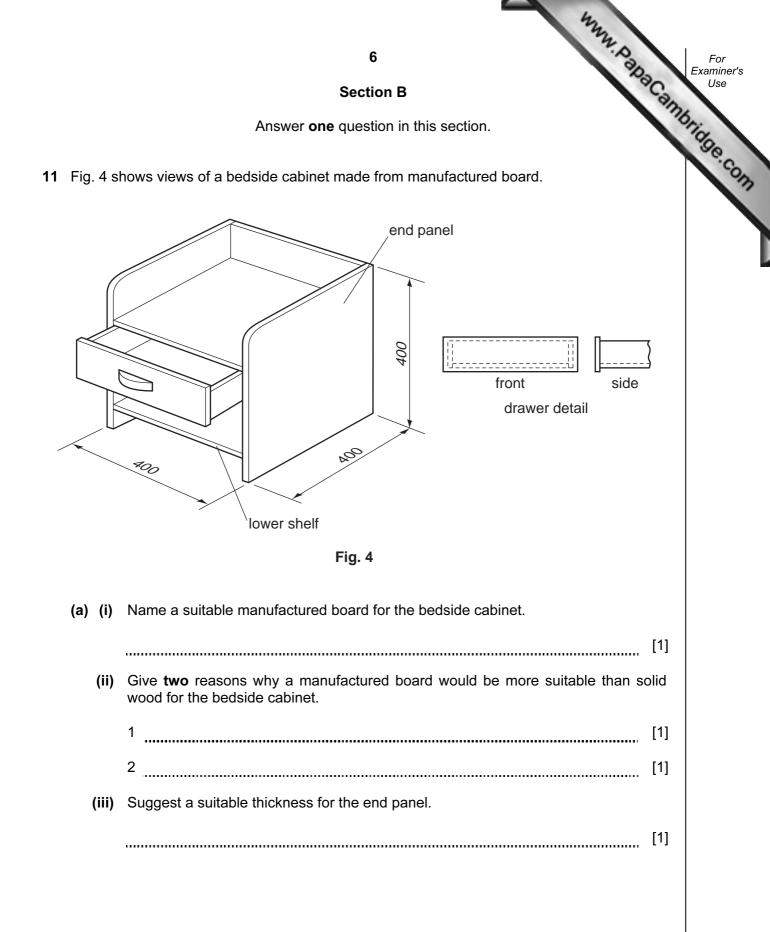


[2]

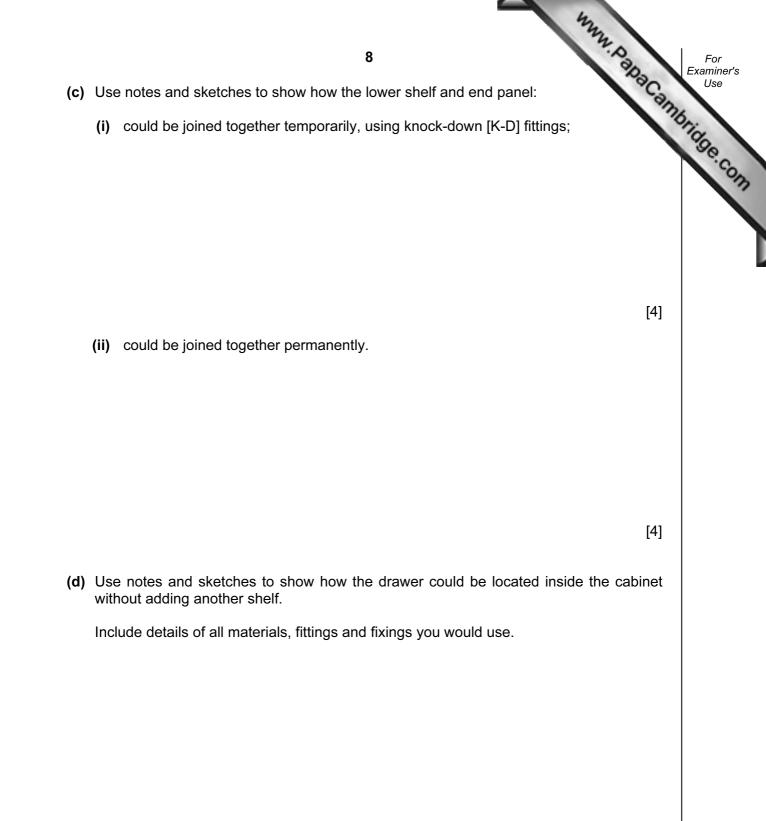


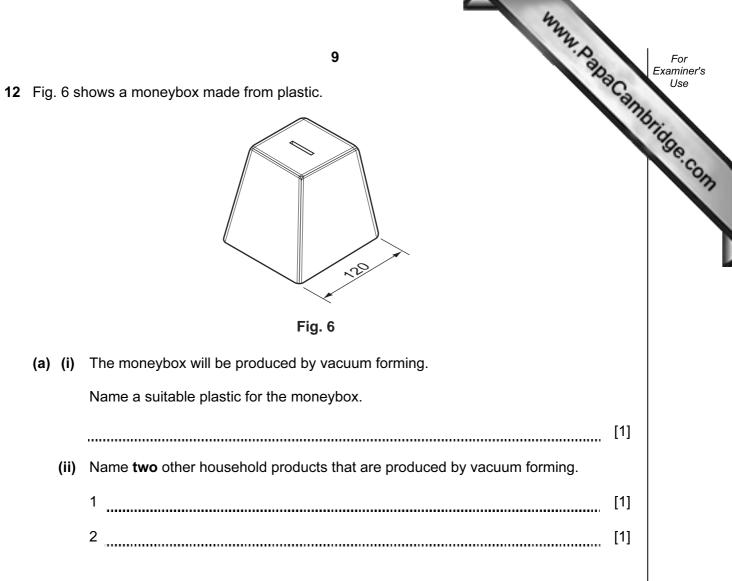






www.PapaCambridge.com (b) Fig. 5 shows the two end panels and the two shelves marked out on a level manufactured board. Fig. 5 (i) Name two marking out tools used to mark out the end panels and shelves. 1 _____ [1] 2 [1] (ii) Explain why there is a space between each of the 400 mm lengths. [2] (iii) Name a saw that could be used to saw the end panels and shelves from the length of manufactured board. [1] (iv) Some manufactured boards splinter when they are sawn. Describe how this problem may be overcome. [2]





(b) Fig. 7 shows the former used to make the moneybox attached to a board ready to vacuum form.

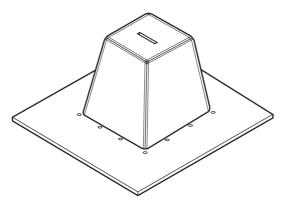
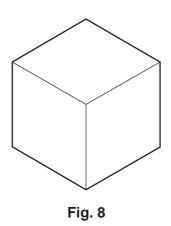


Fig. 7

State **three** features of the former that will ensure that the moneybox can be vacuum formed successfully.

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

www.papacambridge.com (c) Fig. 8 shows a wooden block from which the former of the moneybox will be made



Use notes and sketches to show how the former could be made from the wooden block. Include details of the following stages:

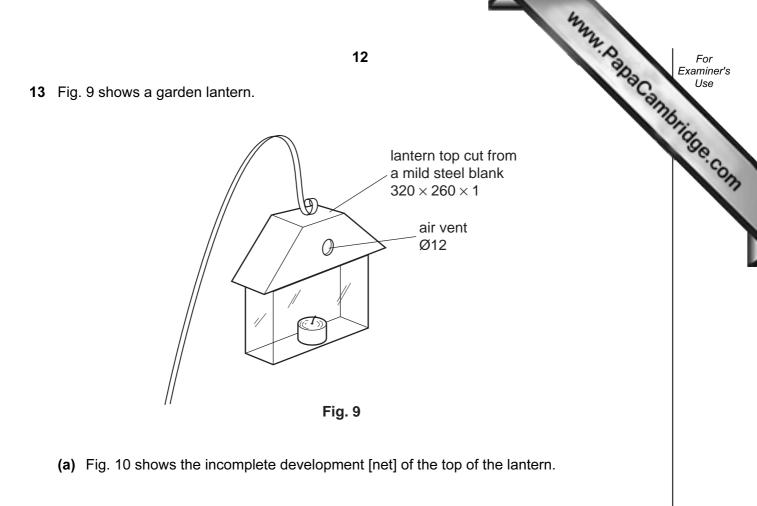
- marking out; •
- holding the block and sawing it to shape; •
- smoothing the sides and rounding the corners.

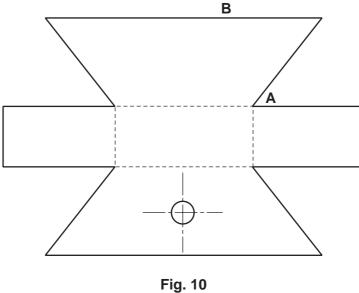
10

11 d) Complete the table below by giving details of the stages in vacuum form moneybox.	o apa Carrie	For Examiner's Use
Vacuum forming stages		Se.con
Position former on platen of vacuum forming machine		12
Remove plastic from machine		
	[5]	

(e) Use notes and sketches to show how a base could be fitted to the moneybox. The base must be capable of removal. The design of the moneybox may be modified to take the base.

		[6]
(f)	The moneybox in Fig. 6 could be made from wood.	
	Give one advantage and one disadvantage of using vacuum formed plastic for moneybox rather than wood.	the
	Advantage	
		[1]
	Disadvantage	
		[1]



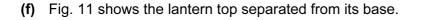


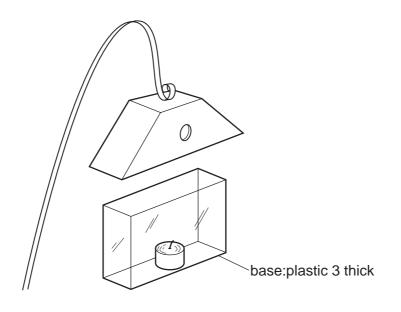
(i) Name **three** marking out tools used to mark out the development [net] on mild steel sheet.

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

	(ii)	13 Describe how a template could be used to assist manufacture of twenty lant [2]	For Examiner's Use
	(iii)	[2] Tabs are to be added to the development [net] to allow the top to be joined together. Complete the development [net] in Fig. 10 by adding the tabs. [4]	age con
(b)	Nar 1	ne two tools used to cut out the 1 mm thick mild steel shape. [1]	
(c)	2 (i)	[1] Name the type of file that would be used to file inside corner A in Fig. 10.	
. ,	(ii)	[1] Use notes and sketches to show how the mild steel sheet could be held so that edge B in Fig. 10 could be filed flat.	

	4322	
1	14 rilled using a drilling machine.	
(d) The hole for the air vent in Fig. 9 will be dr	rilled using a drilling machine.	Can
Describe one possible danger when drillin	ng thin sheet material.	ann
		[2]
(e) The mild steel top of the lantern will be pa	ainted.	
Give two reasons why the top will need to	be painted.	
1		[1]
2		[1]







Use notes and sketches to show how the top and the base could be fixed together. Modifications to the top and/or the base may be carried out to enable the parts to be fixed together.

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