

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 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 16 printed pages.



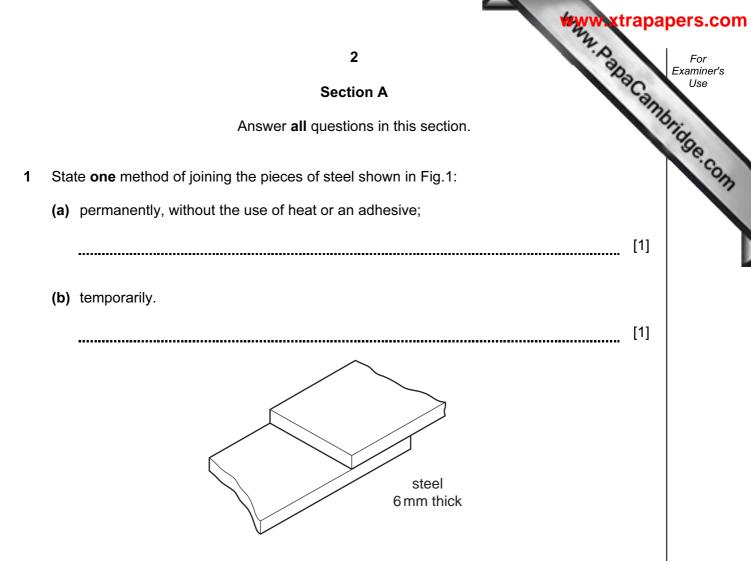


Fig. 1

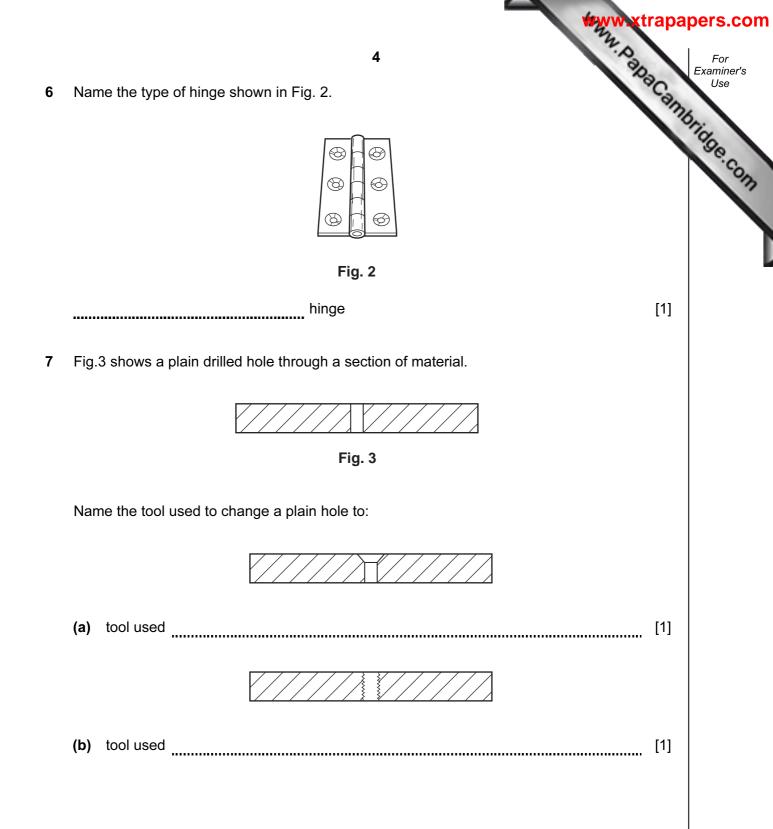
2 Complete the table below.

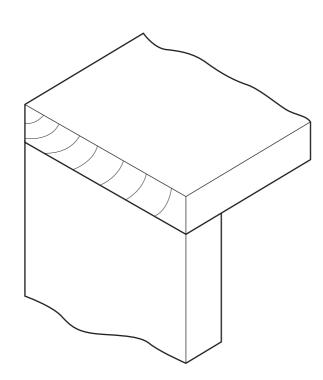
Material	Property	Use	
Copper		Water pipes	
	Heat resistant	Saucepan handles	
Blockboard		Table top	
	Resists corrosion	Kitchen sink	

[4]

	3	For
3	Describe a situation in the workshop when the following items of safety equip need to be used:	pment Parts Use
	(a) face mask;	pment [1]
	(b) ear defenders.	
		[1]
4	Complete the sketch below by adding a suitable knock-down (K-D) fitting that co to join the two pieces of wood together.	ould be used
		[2]
5	Explain the purpose of the chamfer and the saw-cuts in the dowel shown below in a glued dowel joint.	w when used

saw-cuts [1]





[2]

For Examiner's Use

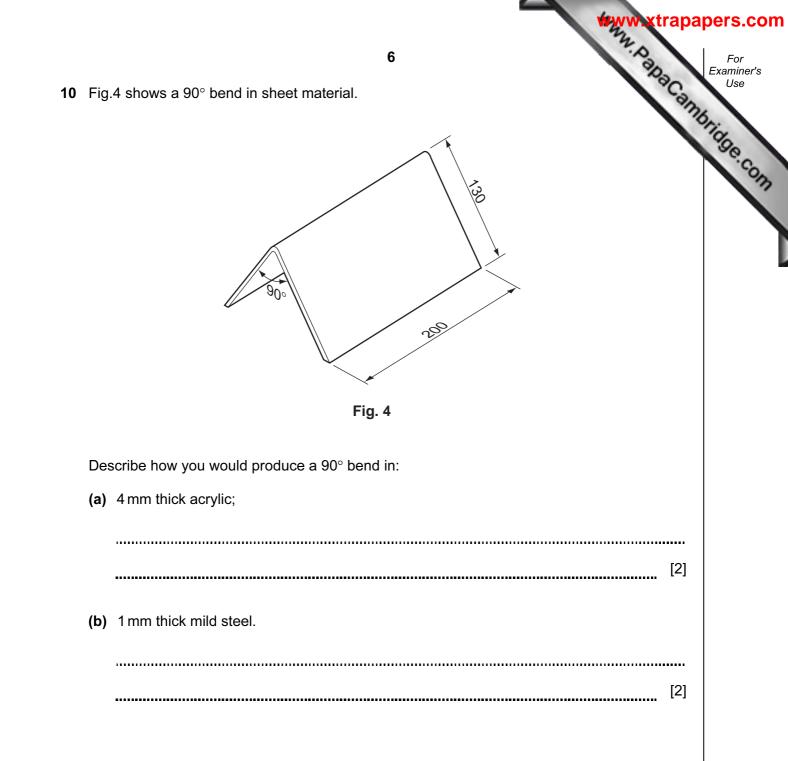
9 Complete the table below by naming a suitable finish for each product and giving a reason for each choice.

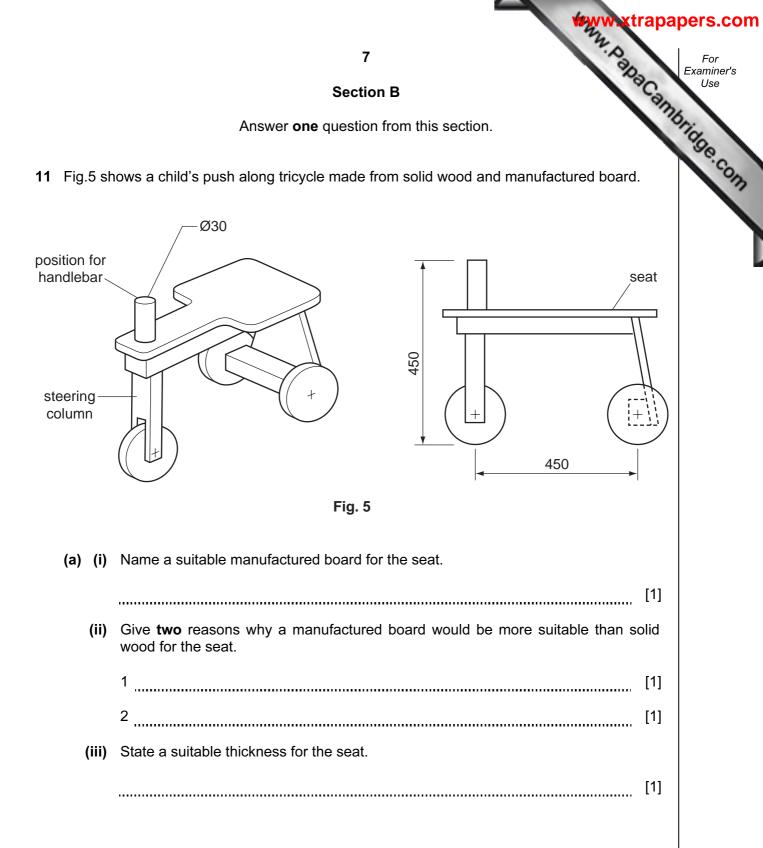
Product	Finish	Reason
Copper jewellery		
Handle of electrician's pliers		

[4]

Complete the sketch of the joint below to show dovetail nailing.

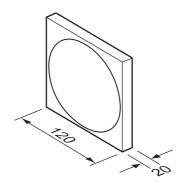
8





For Examiner's Use (b) (i) Use notes and sketches to show how the front wheel could be secured steering column and allowed to move freely.

(ii) Use notes and sketches to show how a wheel could be produced from a piece of solid wood or manufactured board as shown below.



e fixed (c) Use notes and sketches to design a wooden handlebar that could be fixed steering column.

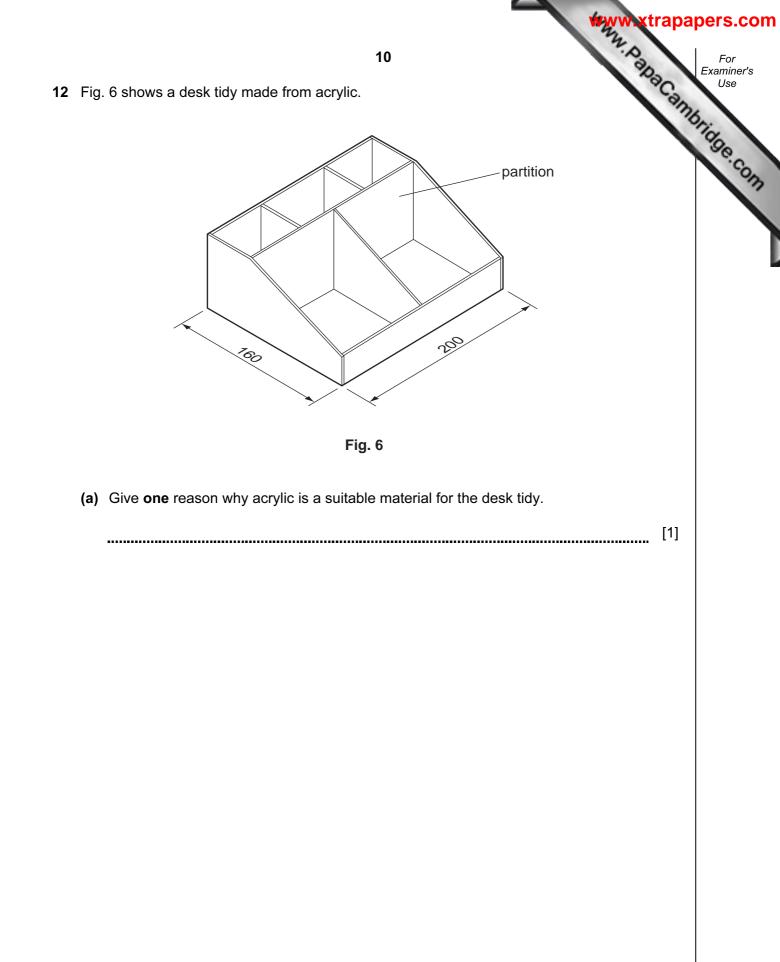
Include the following details:

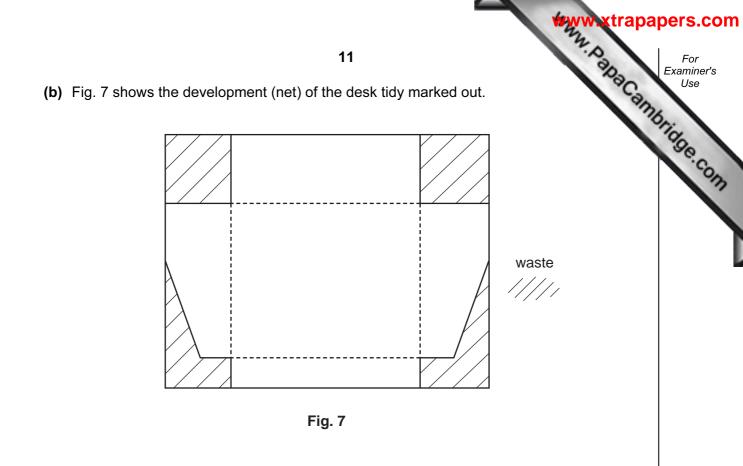
- the method of construction; •
- shaping for comfort and grip. •

(d) (i)	Give two reasons why gloss paint would be a suitable finish for the tricycle.	[6]
	1	[1]
	2	[1]
(ii)	Give two reasons why the parts of the tricycle would be painted before they we assembled.	ere
	1	[1]
	2	[1]
(iii)	Complete the table below by describing the stages in preparing the wooden part of the tricycle for a gloss paint finish.	arts
	Stages	

Smooth surfaces using a medium grade of glasspaper
Apply gloss paint

[4]





(i) Name **two** marking out tools used to mark out the development (net) on acrylic sheet.

1	[1]
2	[1]

(ii) Use notes and sketches to describe how the waste material could be removed and the edges made flat and smooth.

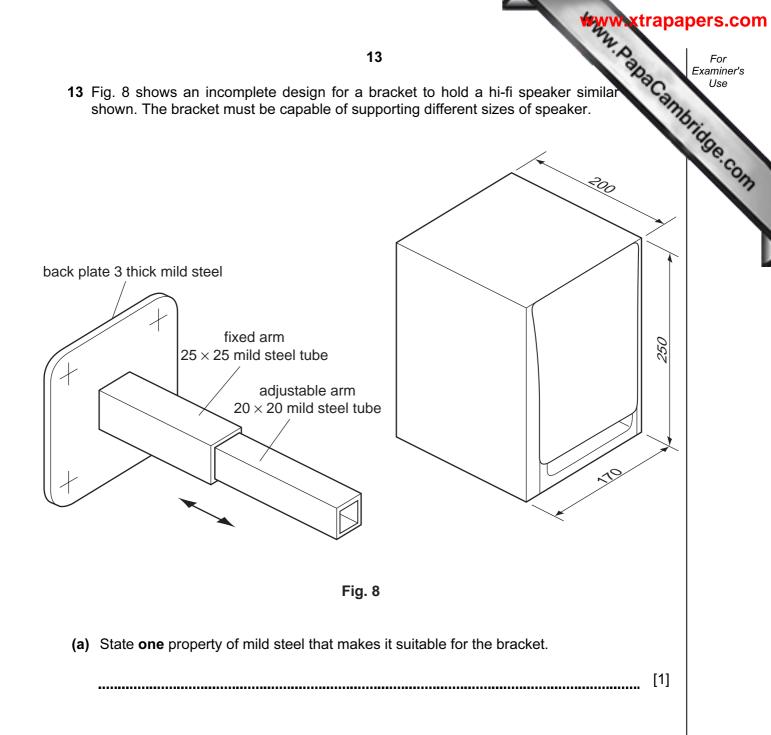
(net) ct (c) Use notes and sketches to show how the four sides of the development (net) a bent to shape.

Include the following details:

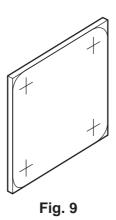
- the method of heating the plastic;
- the use of jigs or formers;
- the means of holding the plastic in place while it cools.

[8] (d) (i) Name a solvent that could be used to cement the partitions into the desk tidy as shown in Fig. 6. [1] (ii) State one safety factor that would need to be considered when using a solvent.[1] (e) Use notes and sketches to design a lid for the desk tidy that would keep the contents clean.

Include details showing how the lid would fit onto the desk tidy and how it could be opened and closed.



(b) Fig. 9 shows the back plate marked out before it is shaped and drilled.



(i) Name two tools used to mark out the centres for the holes before they are drilled.

	1	[1]
	2	[1]
(ii)	Name the tool used to mark the radius for the corners.	
		[1]

(c) Fig. 10 shows one end of a length of mild steel tube after it has been sawn.

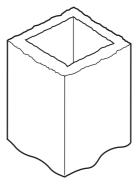


Fig. 10

Name the correct tool that would be used to:

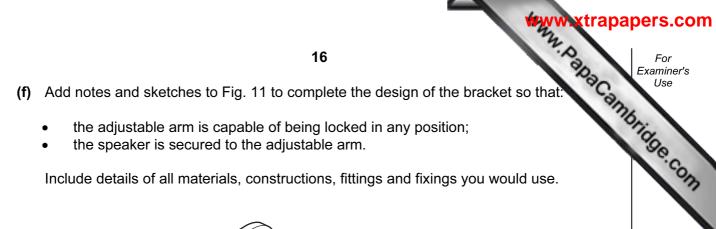
(i) saw the mild steel; [1](ii) make the end of the tube flat and square. [1]

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(d) The fixed arm will be brazed to the back plate.

(e)

	MAN WAX	trapapers.c
	15 N. P.	For Examiner
The	e fixed arm will be brazed to the back plate.	Car Use
(i)	Complete the table below by giving details of the stages in brazing the fixed an the back plate.	Trapapers.c
	Stages	2
	Clean the joint	
	Leave to cool	
		[5]
(ii)	Describe two safety precautions you would need to take when brazing.	
	1	[1]
	2	[1]
The	e bracket will be finished with paint.	
(i)	Describe how the mild steel would be cleaned before the paint is applied.	
()		
		[2]
(ii)	The paint could be applied by means of brush or spray.	
	Give one advantage for a brush finish and a spray finish.	
	Advantage for brush	
		[1]
	Advantage for spray	
		[1]
		1



- the adjustable arm is capable of being locked in any position;
- the speaker is secured to the adjustable arm.

Include details of all materials, constructions, fittings and fixings you would use.

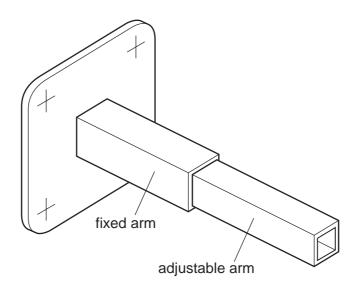
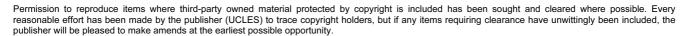


Fig. 11

[8]



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