	FOR OFFICIAL USE					
N5	National Qualifications 2024				Mark	
X862/75/02			Pra	actical	Woodwo	orking
WEDNESDAY, 22 MAY 1:30 PM – 2:30 PM					* X 8 6 2 7	5 0 2 *
Fill in these boxes and rea Full name of centre	d what is printed	below.	Town			
Forename(s)	Surna	ame			Number	of seat
Date of birth Day Month	Year	Scottish ca	ndidate	e number		
Total marks — 60						

Attempt ALL questions.

You may use a calculator.

Write your answers clearly in the spaces provided in this booklet. Additional space for answers is provided at the end of this booklet. If you use this space you must clearly identify the question number you are attempting.

Use **blue** or **black** ink.

Before leaving the examination room you must give this booklet to the Invigilator; if you do not, you may lose all the marks for this paper.



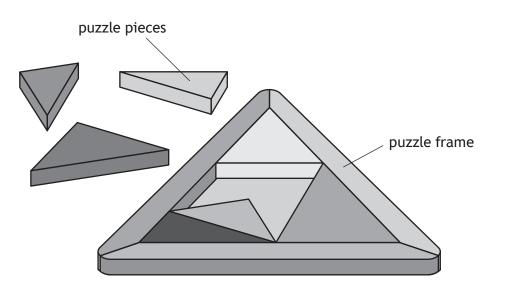




2

Total marks — 60 Attempt ALL questions

1. A company manufactures traditional toys such as the wooden puzzle shown below.

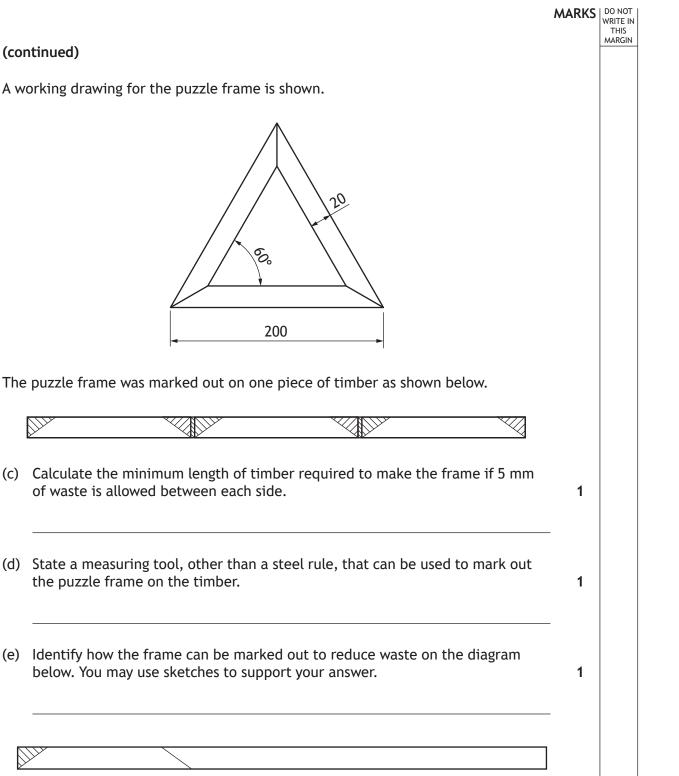


(a) The hardwood oak is used for the puzzle frame.Tick two identifying features of hardwoods from the table below.

They come from coniferous trees	
They are fast growing	
They come from broadleaved trees	
They are known as 'evergreens'	
They are described as 'deciduous'	

- (b) State two material properties of oak which make it suitable for a toy.
 - 1_____ 2_____



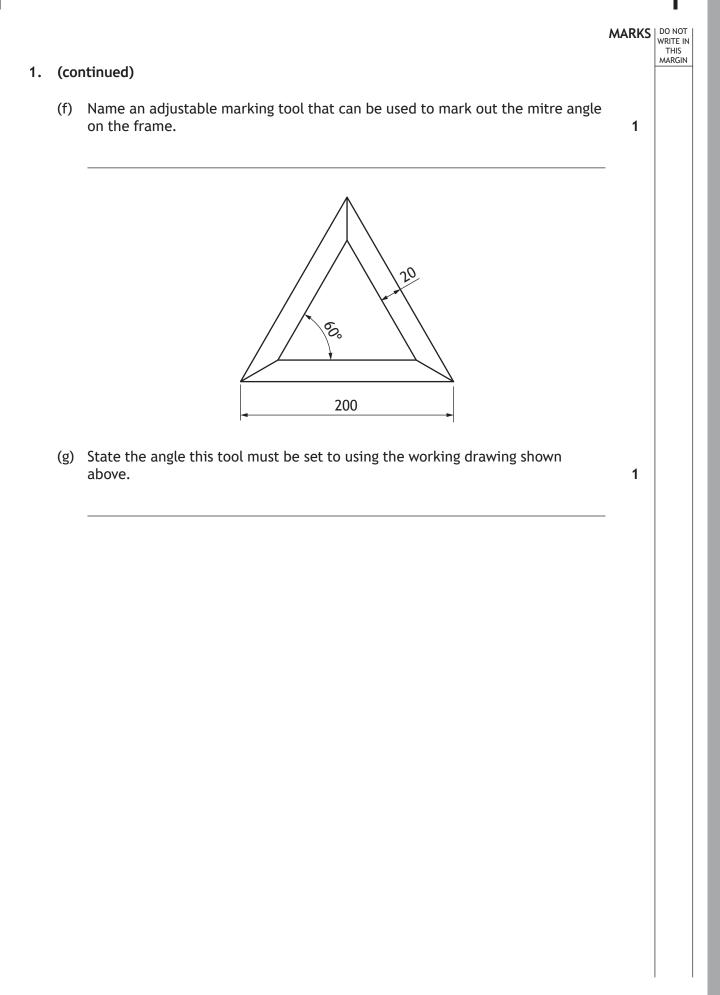


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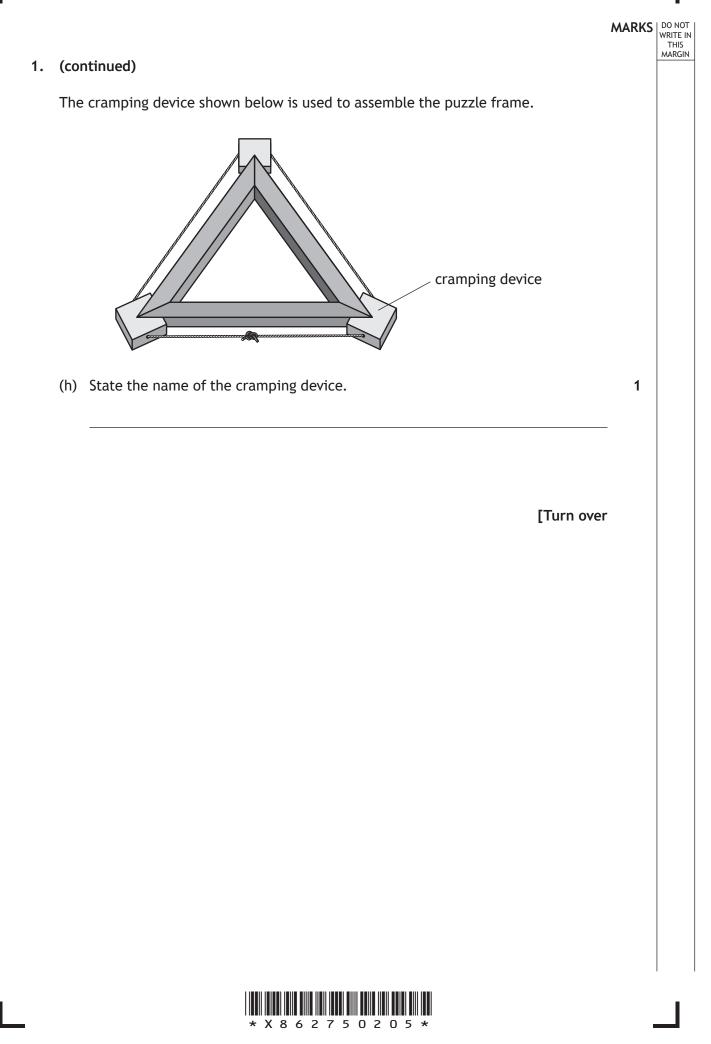
(continued) 1.

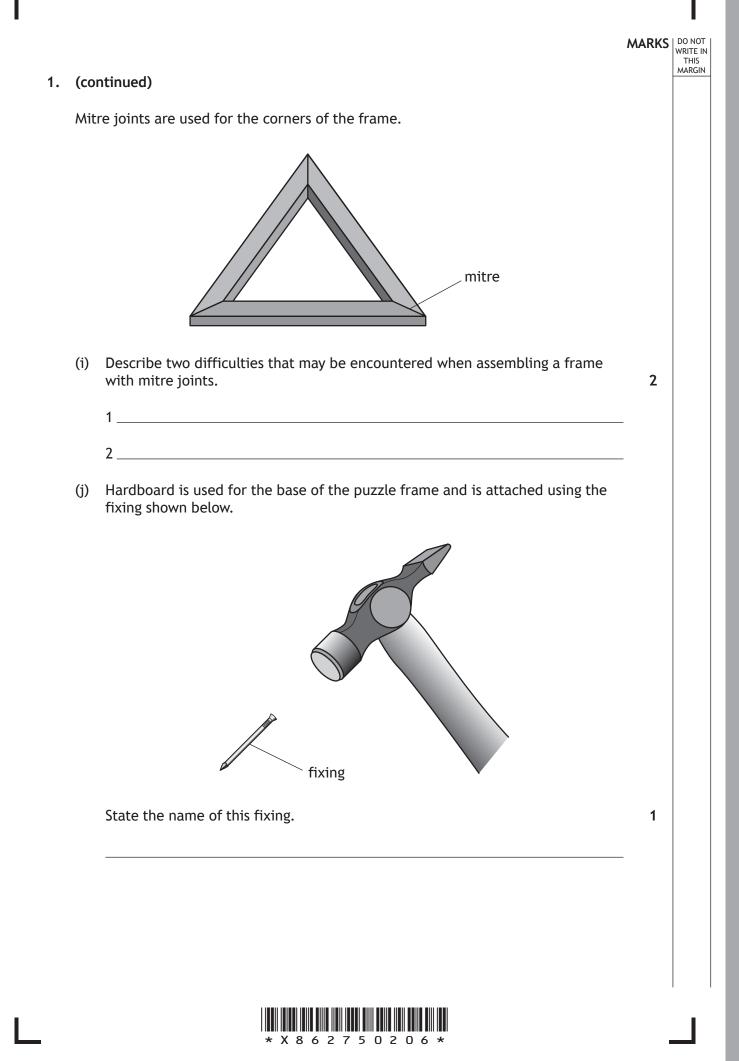
A working drawing for the puzzle frame is shown.







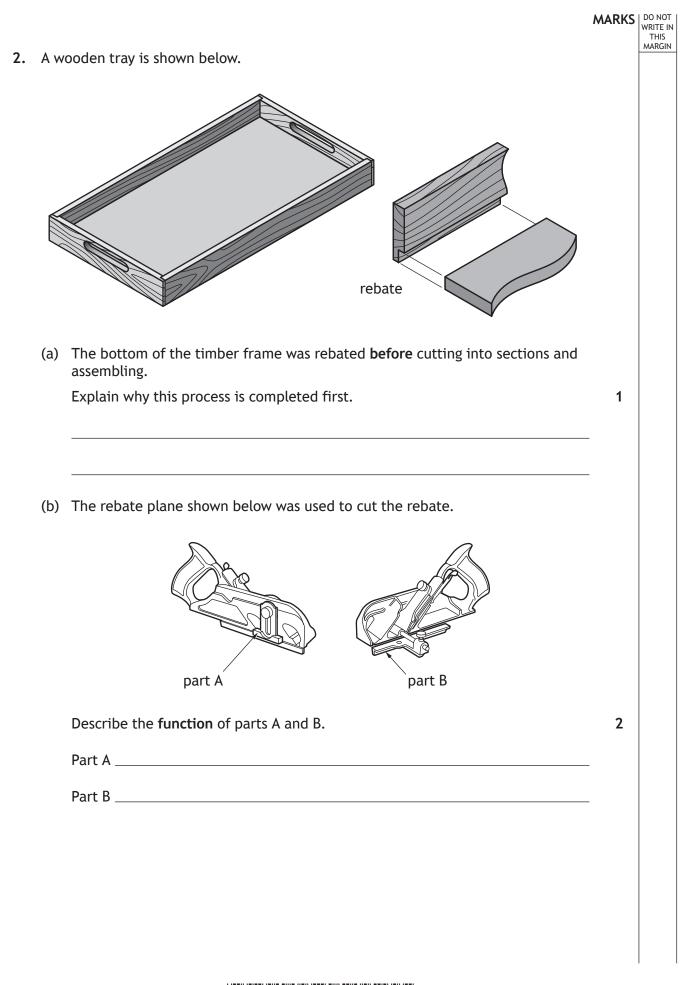




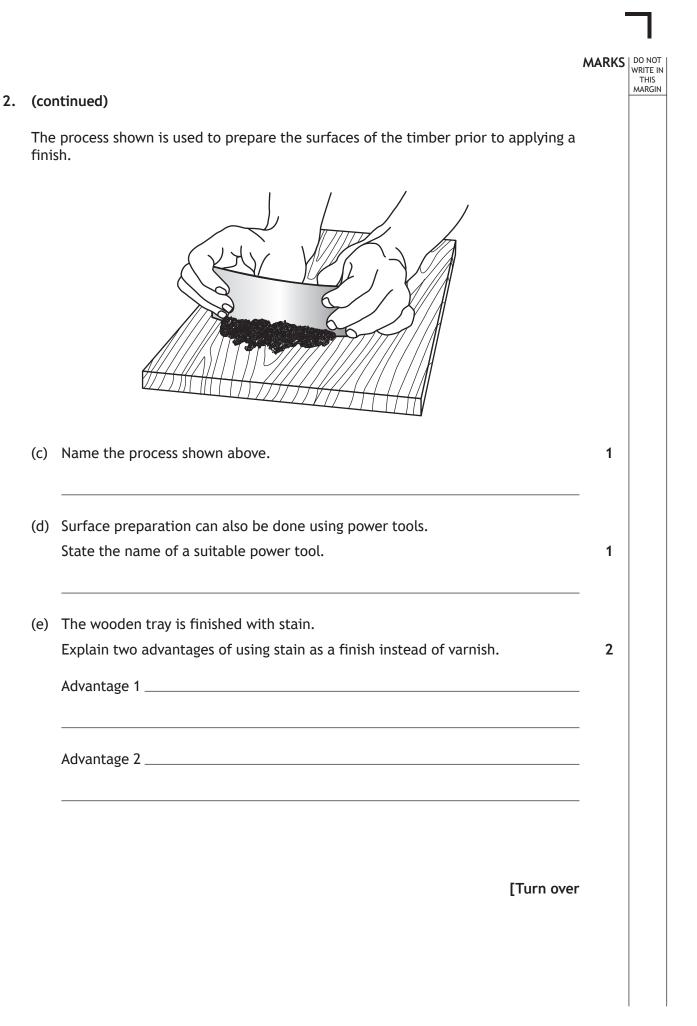
			MARKS	DO NOT WRITE IN
1	(atious d)		THIS MARGIN
1.	(00)	ntinued)		
	(k)	The puzzle pieces are manufactured from waste material found in the workshop.		
		Describe two environmental benefits of using waste material.	2	

[Turn over











			MARKS	DO NOT WRITE IN THIS
2.	(cor	ntinued)		MARGIN
	(f)	Describe how stain is applied to ensure a high-quality surface finish.	2	
			_	
			_	
			_	
	(g)	The stain is solvent based.		
		State two safety precautions that would be undertaken when using a solvent based finish.	2	
		1	_	
		2	_	



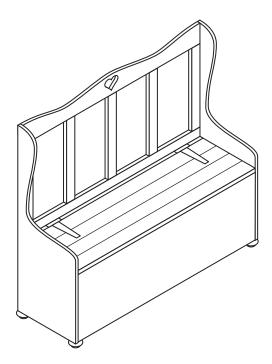
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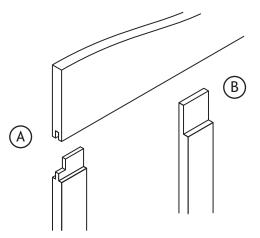


1

3. A bench with storage compartments is shown below.



(a) The joints, shown below, join the top rail to the stiles.



- (i) State the name of joint A.
- (ii) State the name of joint B.



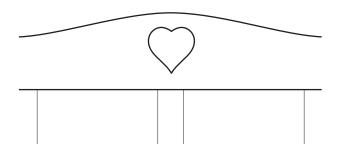
				MARKS	DO NOT WRITE IN THIS MARGIN
3.	(a)	(cont	cinued)		
		(iii)	Identify the ratio joint A is usually cut to by ticking (\checkmark) a box below.	1	
			1:4 thickness 1:3 thickness 1:2 thickness		
		(iv)	Explain why joint A was used for the corner of the frame.	1	
			[Turn over		



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3. (continued)

A heart has been cut in the top rail.



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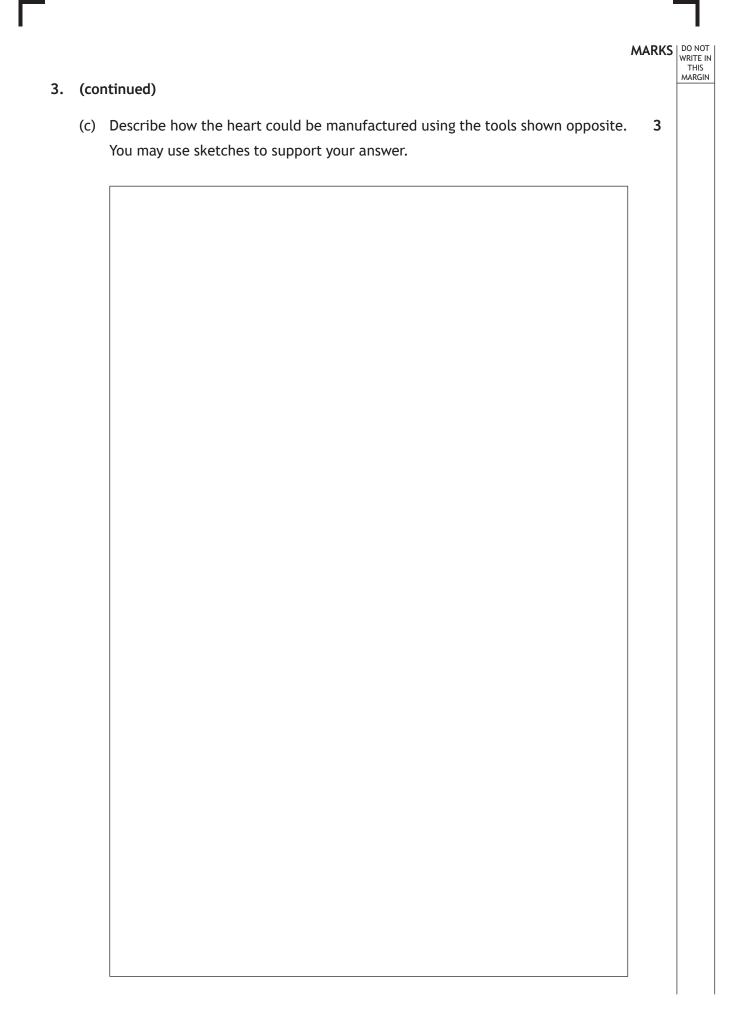
2

The tools shown were used in its manufacture.

			- Call and a call a cal		
	tool A	tool B	rasp		
(b)) State the name of the following tools.				
	Tool A				

Tool B _____







3.	(cor	ntinued)	MARKS	DO NOT WRITE IN THIS MARGIN
		tool A tool B		
	(d)	When using tool A , shown above, the manufacturer found there was splintering on the underside of the wood.		
		Describe what can be done to minimise the chance of this happening.	1	
			-	
		Chate two enfots sharks envirod out to tool D, shown shows before was		
	(e)	State two safety checks carried out to tool B , shown above, before use.	2	
		Check 2		
	The	top rail has a curved edge.		
	(f)	State the name of two hand tools , other than a rasp, that could be used to form the curved edge if tool B was unavailable.	2	
		1	-	
		2	-	

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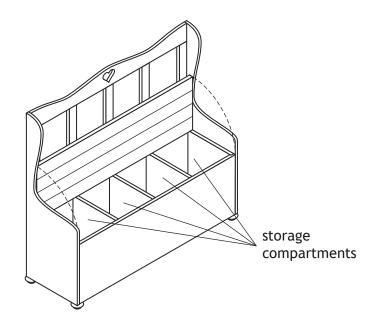
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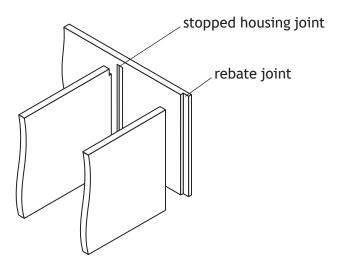
3. (continued)

There are storage compartments under the seat.



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The storage compartments were constructed using stopped housing and rebate joints as shown in the diagram below.

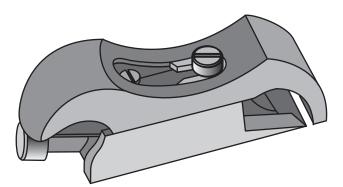




3.

3. (continued)

After removing waste material, the tool shown below was used to finish the rebate joint.

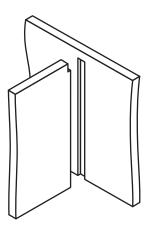


(i) State the name of this tool.



3. (continued)

A stopped housing joint is shown below.



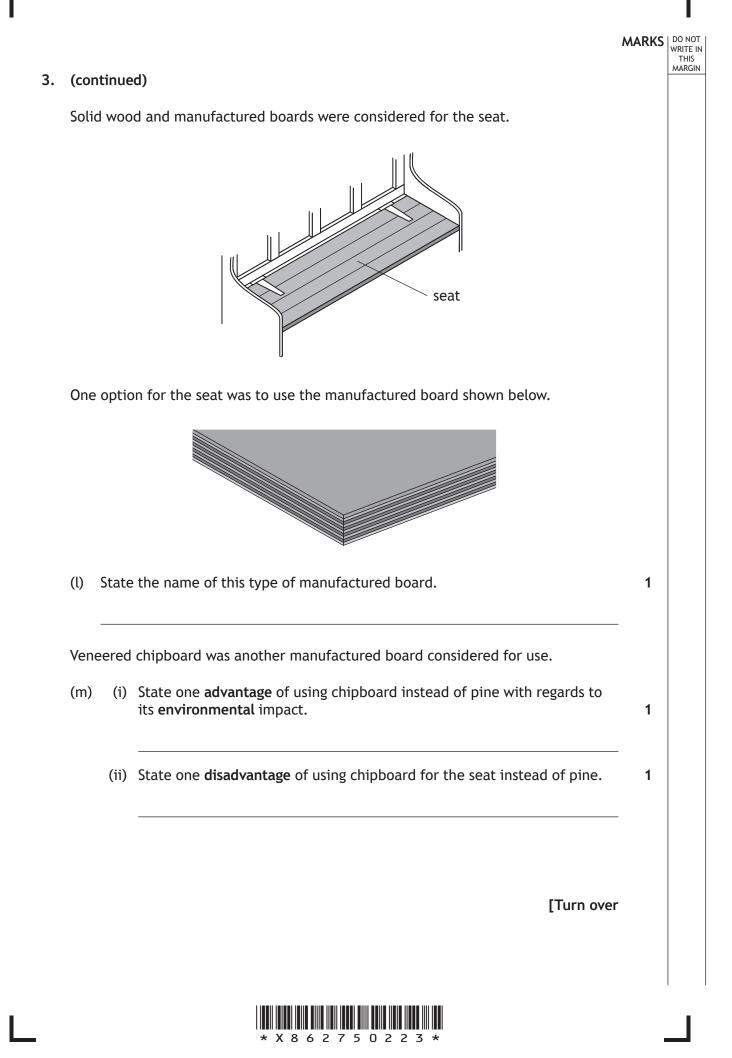
(j) Describe two stages involved in cutting a stopped housing joint.You may use sketches to support your answer.



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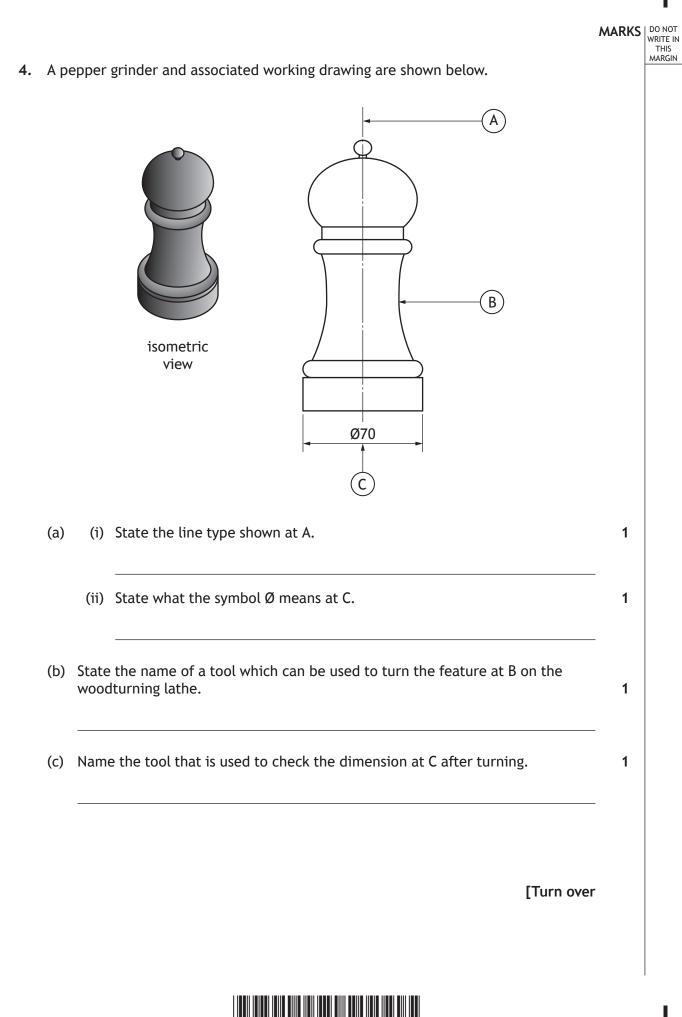
MARKS DO NOT WRITE IN THIS MARGIN (continued) 3. (k) After cutting the joints the tool shown below was used to assemble the storage compartments. (i) State the name of this tool. 1 (ii) State two checks that would be undertaken immediately after gluing and 2 cramping the storage compartments. Check 1_____ Check 2_____





3.	(coi	ntinued)	MARKS	DO NOT WRITE IN THIS MARGIN	
	(n)	Describe why it is important to use wood obtained from sustainable sources.	1		
			_		
			_		
			_		

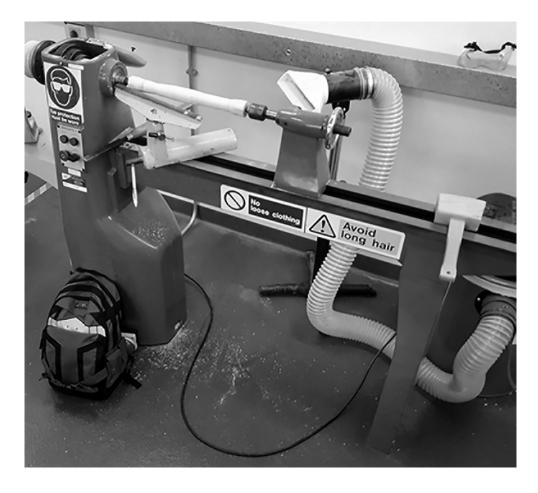




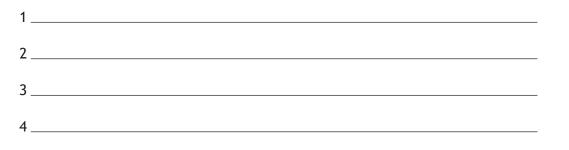
* X 8 6 2 7 5 0 2 2 5 *

4. (continued)

The woodturning lathe was set up as shown below.



(d) State four safety issues with **the machine** shown in this image.



[END OF QUESTION PAPER]



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ADDITIONAL SPACE FOR ANSWERS



MARKS DO NOT WRITE IN THIS MARGIN

ADDITIONAL SPACE FOR ANSWERS

