	UNIVERSITY OF CAMBRIDGE IN International General Certificate o	
CANDIDATE NAME		
CENTRE NUMBER		CANDIDATE NUMBER
DESIGN AND 1 Paper 3 Resista		0445/33 May/June 2011
raper 3 Resista		1 hour

Candidates answer on the Question Paper.

No Additional Materials are required.

9

9

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.

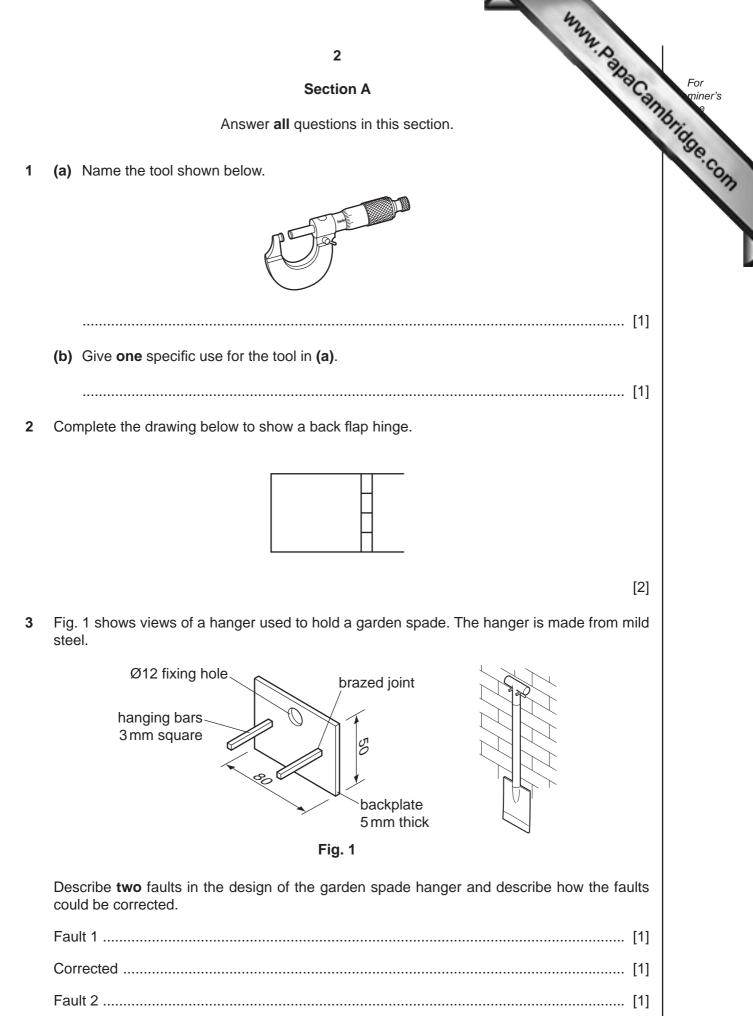
Section A Answer all questions in this section. Section B Answer one question in this section.

You may use a calculator.

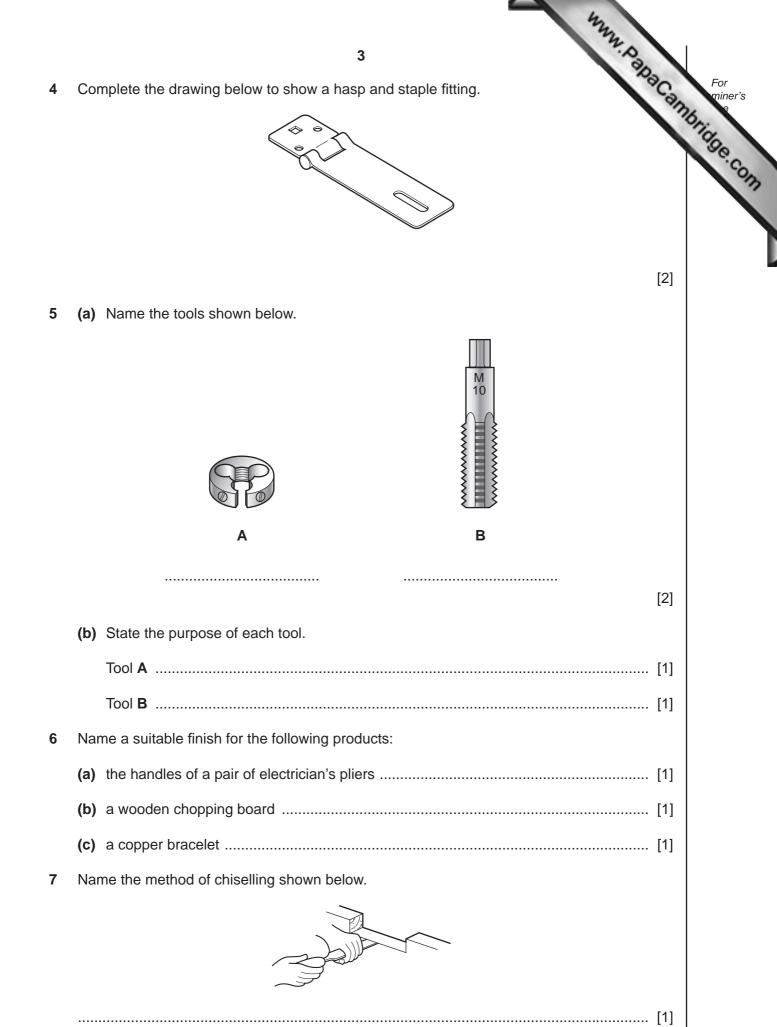
The total of the marks for this paper is 50. The number of marks is given in brackets [] at the end of each question or part question.

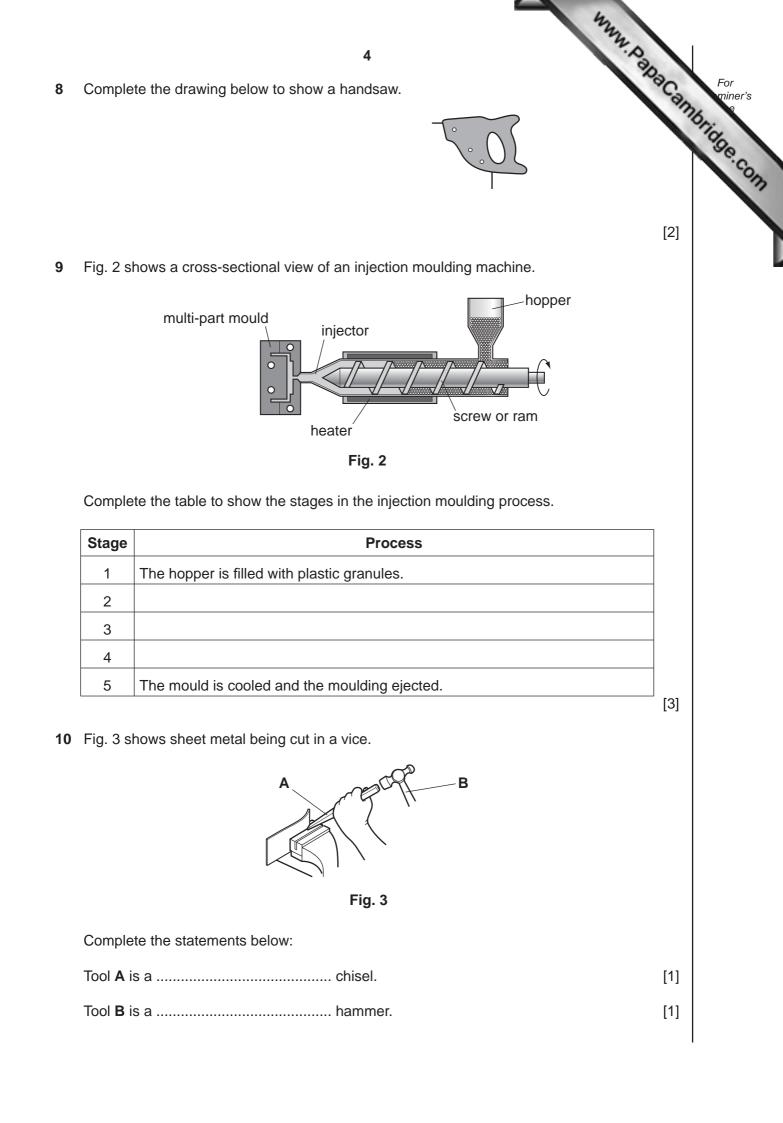
For Examiner's Use					
Section A					
Section B					
Total					

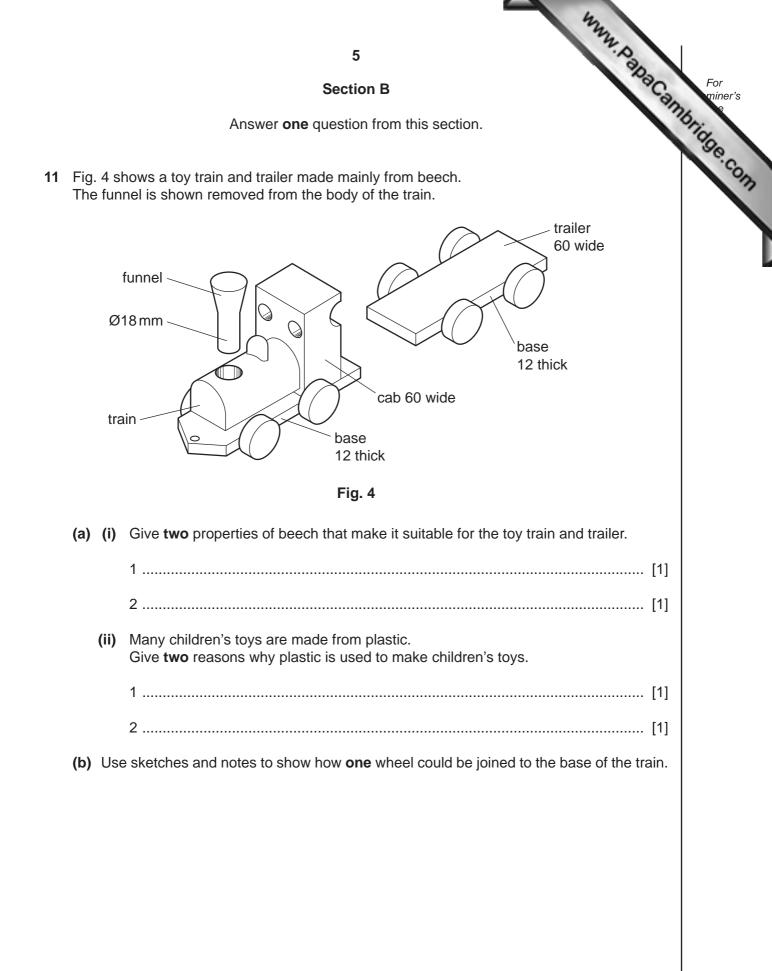
This document consists of 13 printed pages and 3 blank pages.



Corrected[1]

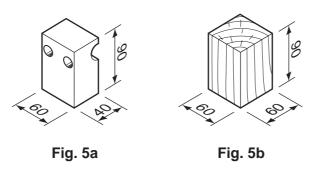








www.papaCambridge.com (c) The cab shown in Fig. 5a will be made from the block of beech shown in Fig. 5b



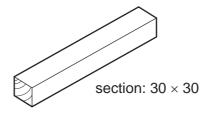
Use sketches and notes to show how the cab could be made. Include details of marking out. Name all the tools and equipment used.

[6]

(d) The train and trailer need to be connected. Use sketches and notes to show modifications to the design of the train and trailer so that:

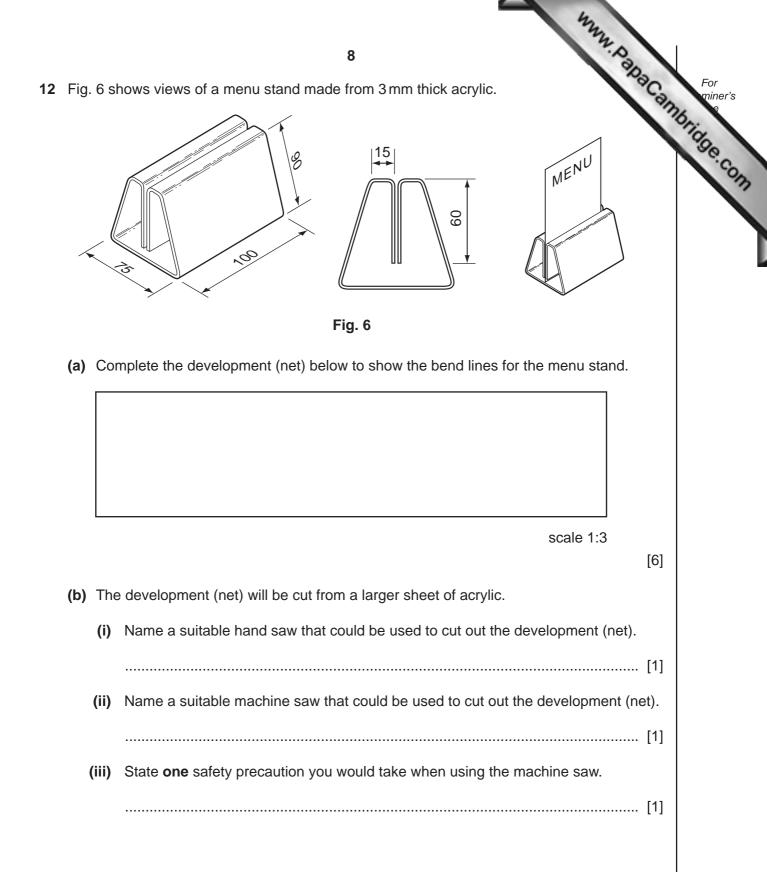
- the train and trailer can easily be connected and disconnected;
- no metal components are used.

www.papacambridge.com 7 (e) Use sketches and notes to show how you would make the funnel shown in Fig. the length of beech shown below using a wood turning lathe.



Include:

- the preparation of the material; •
- a description of the wood turning process. •



www.papacambridge.com (c) Use sketches and notes to show how the sawn edges of the acrylic could be find a high quality.

(d) Use sketches and notes to show how the acrylic could be bent to the shape of the menu stand. State clearly the order in which the bends would be produced.

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(e) Fig. 7 shows a menu stand made from hardwood.

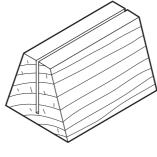
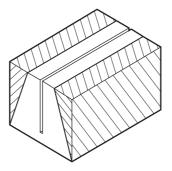


Fig. 7

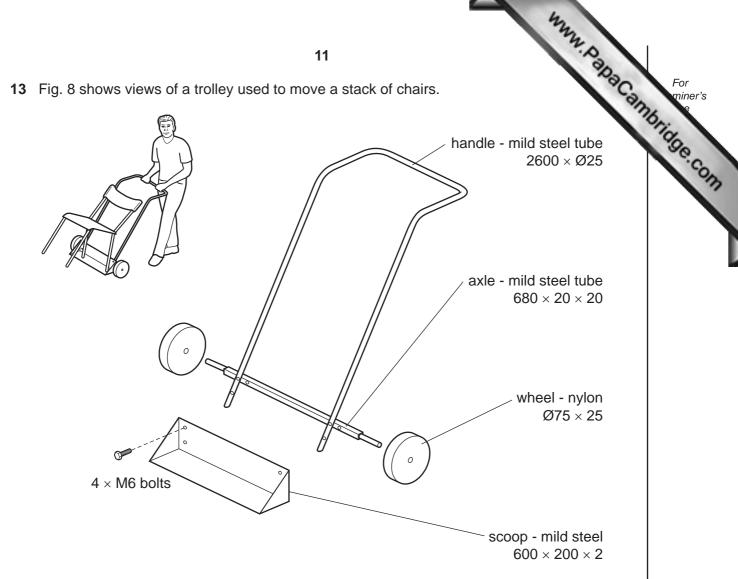
The shape of the menu stand is shown below marked out on a block of hardwood. The slot for the menu card has been cut already.



(i) Describe how a sliding bevel could be used to mark out part of the menu stand.

(ii) Use sketches and notes to show how you could produce the menu stand to the shape shown in Fig. 7.Do not include details of making the slot.Include details of how the hardwood block would be prepared to take a finish.

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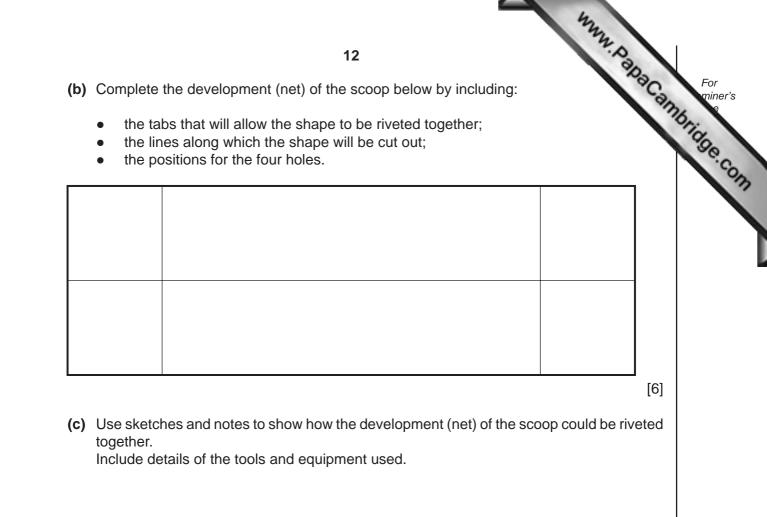


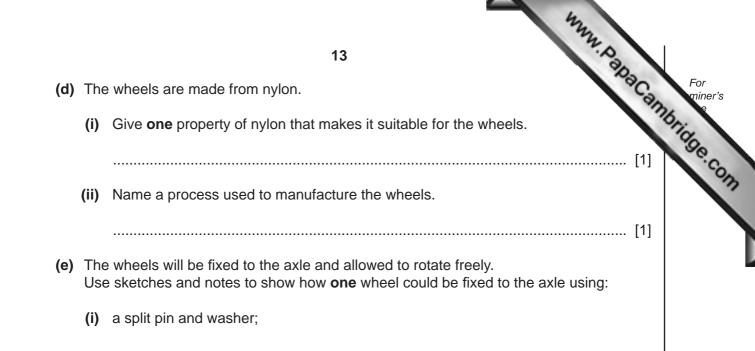


Part	Length	Width	Thickness	Material	Number off
Handle		Ø25		Mild steel tube	1
	680	20	20	Mild steel tube	1
Scoop	600	200			1
Wheels			25	Nylon	2

(a) Use the information in Fig. 8 to complete the cutting list below.

[5]





(ii) a nut and washer.

[3]



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