Surname				Other	Names			
Centre Number					Candi	date Number		
Candidate Signature								

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General Certificate of Secondary Education June 2004

DESIGN AND TECHNOLOGY: TEXTILES TECHNOLOGY Foundation Tier

3547/F

F



Thursday 24 June 2004 1.30 pm to 3.30 pm

In addition to this paper you will require:

a pen, pencil, ruler, eraser, pencil sharpener and coloured pencils.

Time allowed: 2 hours

Instructions

- Use blue or black ink or ball-point pen. Use pencil and coloured pencils only for drawing.
- Fill in the boxes at the top of this page.
- Answer all questions in the spaces provided.
- All working must be shown.
- Do all rough work in this book. Cross through any work you do not want marked.

Information

- The maximum mark for this paper is 125.
- Mark allocations are shown in brackets.
- An insert with body shapes has been provided as a guide for the candidates doing the fashion option.
- Wherever calculations are needed you should show your working.
- You are reminded of the need for good English and clear presentation.

For Exam	iner's Use
Number	Mark
1	
2	
3	
4	
5	
TOTAL	
Examiner's initials	

TP/0204/3547/F 6/6/6/6 **3547/F**

Desig	gn br	ief			
You	are a	textile product designer.			
You	have 1	to design a denim product for children aged 5 to 10 years old.			
Your	Your product will need to sell well.				
Choo	ose on	e of the following:			
	eithe	r			
	A	a textile product for a child's room			
	or				
	В	an item of clothing for a child.			
	•	The product will be batch produced.			
	•	It must be made from denim fabric.			
	•	The product must be decorated.			
Tick	the b	ox to show which one you have chosen.			
		A textile product for a child's room.			
		An item of clothing for a child.			

You should answer the questions in this paper in the order in which they are written.

TP/0204/3547/F

NO QUESTIONS APPEAR ON THIS PAGE

Answer all questions in the spaces provided.

Question 1 is about researching existing products.

1 (a) These existing denim products are not selling very well.

Give **two** reasons why they are not selling well.

(i)				
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	AR DOTTOR			1

					(2 marks

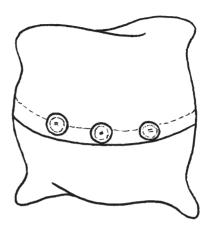


1	 	 	
2	 	 •••••	
			(2 marks)

(b) Fastenings on a product are important.

Look at the products below.





	(i)	Name the fastening used.	
			(1 mark)
	(ii)	Name one different fastening that could be used.	
			(1 mark)
	(iii)	Give two reasons for your choice.	
		1	
		2	(2 marks)
(c)		e three things a designer would need to find out about denim fabrics before ducts.	designing
	1		
	2		
	3		(3 marks)

Question 2 is about the design of your product.

2	(a)	Designers use computers to help design textile products.	
		Give two ways in which a computer can help you to design textile products.	
		1	
			(2 marks)
		2	
			(2 marks)
	(b)	Products must be safe for children to use.	
		Explain two different ways a designer can make sure a product is safe for children.	
		1	
			(2 marks)
		2	
			(2 marks)

(c)	You have been asked to show two design ideas to the manufacturer.	
	The design specification says that the product must:	
	 be made from denim; be decorated in an original way; be batch produced. (i) Draw two ideas in pencil. 	
	Idea A Idea B	(8 marks)
	Choose one of your ideas for development.	
	Tick the box to show the idea you would choose.	
	Idea A Idea B	
	(ii) Explain one reason why you think adults will like this idea.	
		(2 marks)
	(iii) Explain one reason why you think children will like this idea.	
		(2 marks)

(d) Present a final design for your product on this page and the next.

Show the decoration.

If you have chosen the fashion product you may use the body shapes as a guide.

Marks will be awarded for:

•	use of denim fabric/components;	(3 marks)
•	the decoration;	(5 marks)
•	originality and quality of the design;	(10 marks)
•	presentation of the final idea.	(3 marks)

QUESTION 2 CONTINUES ON THE NEXT PAGE

Turn over ▶

(e)	You have been asked to decorate the product	in an interesting way.
	(i) Name one decoration method used	(1 mark)
	(ii) Explain how you would do it. You can	use drawings to help you.
		(6 marks)

Question 3 is about the denim fabric and components used for your product.

3	(a)	Denim fabrics are usually made from cotton. Give three reasons why denim is a good fabric to use for your product. 1
		3
		(6 marks)
	(b)	Denim fabric is woven.
		The picture below shows a twill weave.
		Give two reasons for using a twill weave.
		1
		2
		(4 marks)

- (c) You will need to design a care label for your denim product.
 - (i) Choose one symbol from each group below.

Put a circle around each symbol that you choose.

Group A	95	60	50	40	40	THE STATE OF THE S	M

|--|

(3 marks)

(ii)	Explain what the symbol you have chosen from Group A means.					
		(2 marks)				

(d) Denim fabrics are usually dyed blue.

Explain three different ways in which a manufacturer can put different colour on the denim fabric.

	Method	Explain how it is done
1		
2		
3		

(6 marks)

(e)	Describe two components which you could	use on your product.
	Component 1:	
	Description:	(2 marks)
	Component 2:	
	Description:	(2 marks)
(f)	Denim fabrics can fray badly. You will ne of the seams below.	ed to choose the seams carefully. You could use one
Ove	rlocked Seam (i)	Why might you choose the overlocked seam?
E		
00000	WRONG SIDE	(2 marks)
	(ii)	Why would you not choose the overlocked seam?
		(2 marks)
Dou	ble stitched Seam (iii)	Why might you choose the double stitched seam?
	RIGHT SIDE	(2 marks)
	(iv)	Why would you not choose the double stitched seam?
		(2 marks)

Question 4 is about the manufacture of your product.

4	(a)	The textile manufacturer will need a <i>production plan</i> before your product can be manufactured.
		Why is a production plan needed?
		(3 marks)

(b) Factories use computerised machines.

Give **two** different advantages of using computerised machines for each of the processes listed below.

	Process	Advantages
1	Pattern laying and cutting fabric	1
		2
2	Sewing buttonholes	1
		2
3	Steam pressing the final product	1
	•	
		2

(6 marks)

(c)	(i)	Describe three ways the manufacturer can make sure your product is well made in the factory.
		1
		2
		3
		(6 marks)
	(ii)	Give three reasons why you think your product is good value for money.
		1
		2
		3
		(6 marks)

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TURN OVER FOR THE NEXT QUESTION

Question 5 is about the selling of your textile product.

5	(a)	Give one advantage and one disadvantage places.	of buying the products in each of the following
		(i) Designer shop	Advantage:
		elite	Disadvantage: (1 mark)
		(ii) High street chain store	Advantage:
		(1 mark) Disadvantage:	
			(1 mark)
		(iii) Mail order catalogue	Advantage:
			(1 mark) Disadvantage:
			(1 mark)
(iv) M		(iv) Market stall	Advantage:
			(1 mark)
			Disadvantage:
	\mathcal{A}		(1 mark)

(b) Manufacturers often use computers to help them work out batch production costs.

An example of a spreadsheet is shown below.

(SAROHER)	А	В	C	D E
1	Materials	Quantity bought	Cost per unit	Total cost
2	Buttons	7000	£0.05	£350.00
3	Care labels	1000	£0.02	£20.00
4	Fabric	2000 metres	£3.00	£6,000.00
5	Interfacing	500 metres	£0.50	£250.00
6	Lining	1500 metres	£1.00	£1,500.00
7	Packaging	1000 bags	£0.05	£50.00
8	Threads	100 reels	£2.00	£200.00
9				£8,370.00
10		**************************************		•
11				
12				
13 14				
15	******************************	***************************************		vana ana ana ana ana ana ana ana ana ana
16				
17				
18				
19 20				
K s	Sheet1	Sireet2 / Sheet3 / Sheet	4 / Sheet5 / Sheet6	/ Sheet7 / Sheet 4

What are the advantages of using a computer spreadsheet to work out the final selling price?	
	•••
(4 mark	3

END OF QUESTIONS

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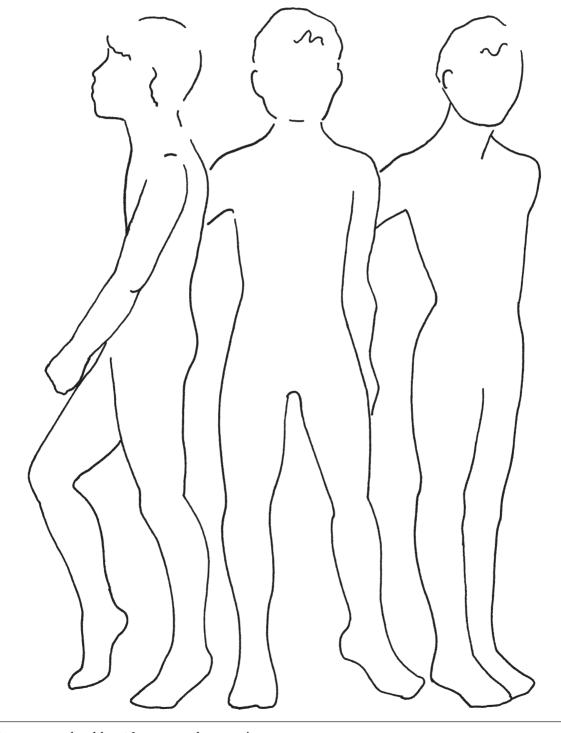
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DESIGN AND TECHNOLOGY:

TEXTILES TECHNOLOGY: Full and Short Courses

This insert is provided for use in the examination. It may be used as a guide for the Fashion option. **Do not draw on this page.**



This insert page should **not be** sent to the examiner.