



Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

A-level DESIGN AND TECHNOLOGY: FASHION AND TEXTILES

Paper 1 Technical Principles

Friday 7 June 2019

Morning

Time allowed: 2 hours 30 minutes

Materials

For this paper you must have:

- normal writing and drawing instruments
- a scientific calculator.

Instructions

- Use black ink or black ball-point pen. Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 120.

For Examiner's Use

Pages	Mark
2–3	
4–6	
7	
8–9	
10–11	
12–13	
14–15	
16–17	
18	
TOTAL	



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Answer **all** questions in the spaces provided.

0 1

Give **two** benefits of using standardised components in fashion product manufacture. **[2 marks]**

1 _____

2 _____

0 2

Explain how sub-assembly is used in fashion manufacture. **[3 marks]**

0 3

Describe the structure of satin fabric.
You may use a diagram. **[3 marks]**



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0	4
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Evaluate the impact of offshore production on industrial and commercial practice.

[6 marks]

14

Turn over for the next question

Turn over ►



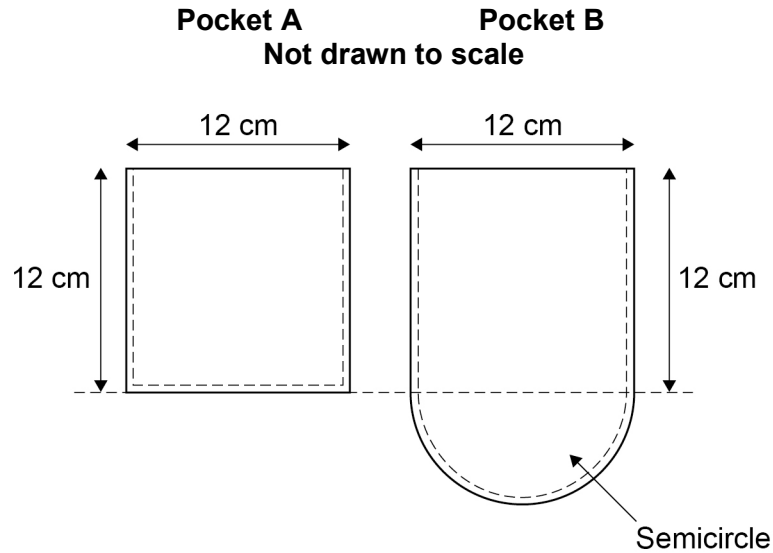
0 5

A manufacturer must work out the cost of sewing pockets onto a product. The thread used to sew the pocket in place costs 0.25 p/cm. The stitch line is sewn 5 mm in from the edge. 5% extra thread must be added for the reverse stitch and waste thread.

Calculate the cost of the thread used on each pocket to two decimal places.

You must show your working.

[6 marks]



Pocket A _____

Answer: _____

Pocket B _____

Answer: _____



0 6

Reducing the number of manufacturing processes can increase efficiency. Analyse and evaluate the different ways this can be achieved in garment production.

[12 marks]

Turn over ►

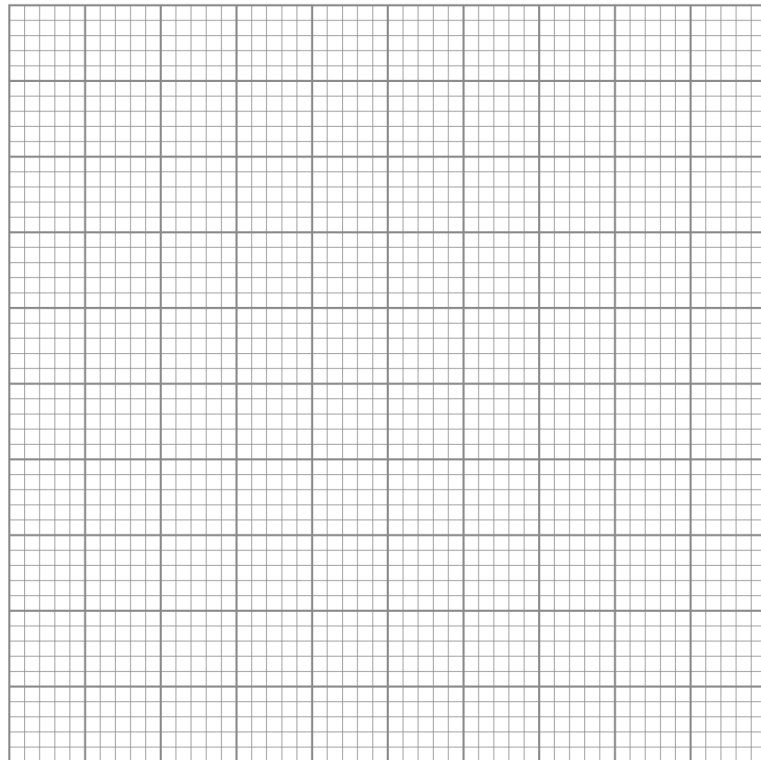


0 7

Show the fabric testing data in a dual bar chart on the grid below.

[4 marks]

Fabric	Flammability test (number of seconds before the fabric ignited)	Abrasion test (number of seconds before breaking through the fabric surface)
Cotton	3	18
Nylon	8	15
Wool	12	5



0	9
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Explain the factors that affect the dye fastness of fashion and textile products.

[6 marks]



1 0 . 1

Describe the characteristics of brocade fabric.

[3 marks]

1 0 . 2

Describe the characteristics of tartan fabric.

[3 marks]

12

Turn over for the next question

Turn over ►



1 1

A manufacturer is making the bunting shown.

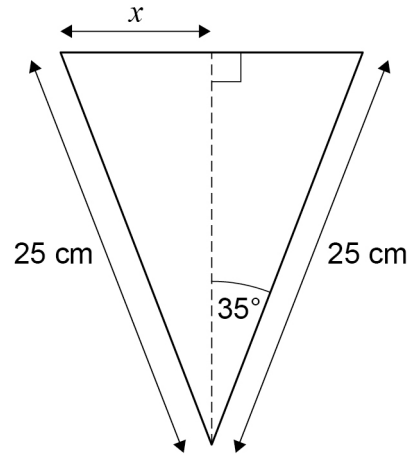
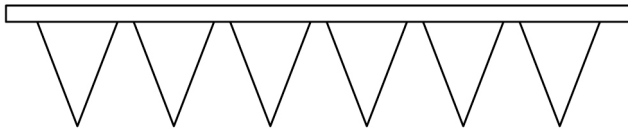
Six triangles are attached to a length of tape with a 2 cm spacing and a 4 cm length of tape at each end. One of the triangles is shown below.

Calculate the total length of tape required.

Show your working.

[5 marks]

Not drawn to scale



Answer: _____

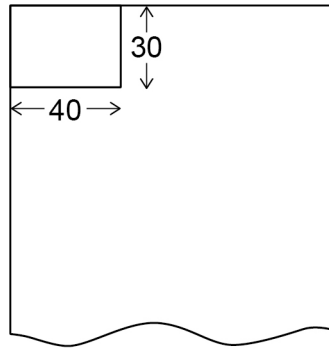


1 4

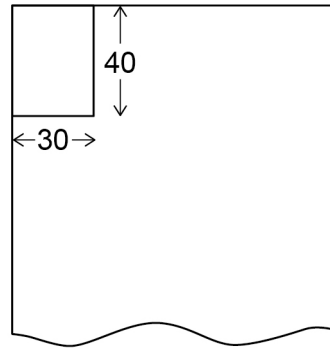
A manufacturer has a 10 m length of non-woven fabric measuring 140 cm wide.

Using each lay plan below, calculate the maximum number of rectangular pieces measuring 30×40 cm that can be cut from the fabric.

**All measurements in cm
Not drawn to scale**



Lay plan A



Lay plan B

State if lay plan A or lay plan B gives more rectangular pieces.

You **must** show your working.

[5 marks]

Answer _____

Turn over for the next question

14

Turn over ►



1 5

Explain how ceramic and carbon fibres can be used to enhance fashion and textile products.

[6 marks]



1 7

Name **two** aramid fibres.**[2 marks]**1 _____
_____2 _____

1 8

Explain the purposes and processes involved in establishing copyright, patents and registered designs.

[6 marks]



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