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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 2 Designing and Making Principles

Friday 14 June 2019

Morning

Time allowed: 1 hour 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 80.
- There are 30 marks in **Section A** and 50 marks in **Section B**.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
6	
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8	
TOTAL	



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Section A – Product AnalysisAnswer **all** questions in this section.

0 1

Figure 1: Gore-tex® jacket**Figure 2: Plain weave polyamide jacket**

0 1 . 1

Analyse the **fabrics** in **Figure 1** and **Figure 2** and evaluate their suitability for outdoor winter sports clothing.

[6 marks]

Question 1 continues on the next page

Turn over ►



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0 **1** **2**

Analyse the **style features** of each jacket in **Figure 1** and **Figure 2** and evaluate their suitability for outdoor winter sports clothing.

[6 marks]



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0 1 . 4

Describe how e-textiles could be included in the jacket in **Figure 1** to increase the safety and comfort of the wearer during outdoor use in winter.

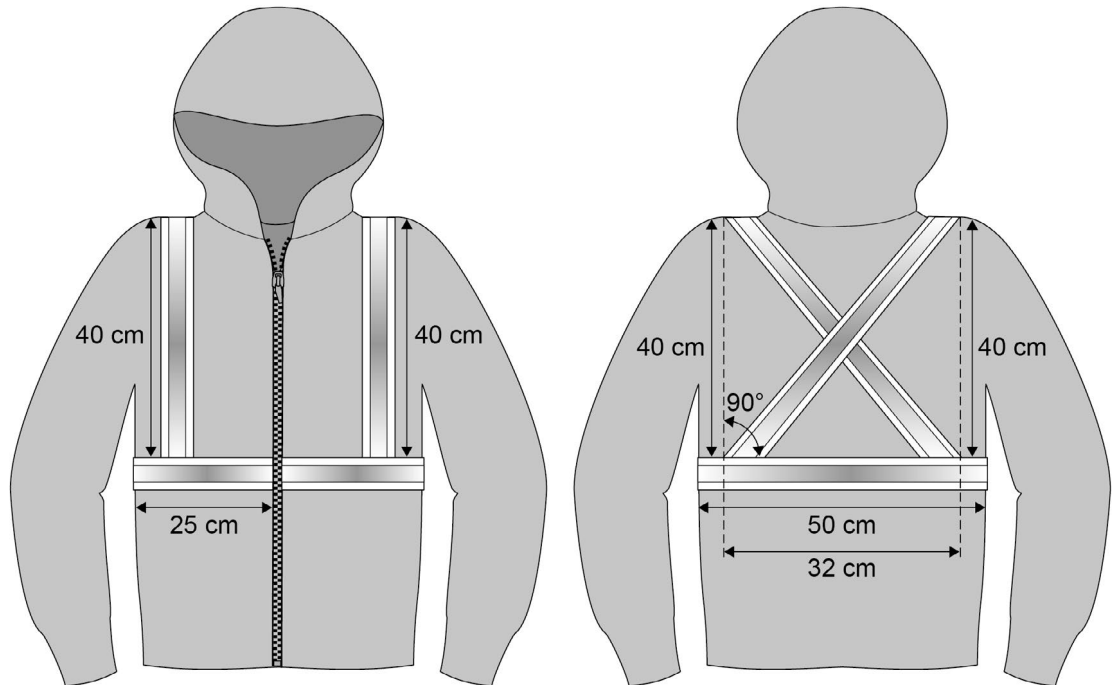
[6 marks]



0 1 . 5

Reflective tape is added to the jacket in **Figure 2**. Look at the working drawing for the new jacket design in **Figure 3**.

Figure 3: Working drawing of jacket with reflective tape
Not drawn to scale



Calculate the length of reflective tape needed for each jacket. In your calculation include 3% extra tape for overlap and seam allowances.

Give your answer to the nearest cm

Show your working.

[4 marks]

Answer: _____ cm

Turn over ►



0 1 . 6

Smart materials respond to external stimuli. Give **two** different smart materials that could be used to improve the performance of outdoor winter clothing.

[2 marks]

30

Section B – Commercial Manufacture

Answer **all** questions in this section.

0 2 . 1

Define what is meant by the term anthropometric data.

[2 marks]

0 2 . 2

Explain how designers use anthropometric data and percentiles when designing textile products.

[3 marks]

5

Turn over for the next question

Turn over ►



0 3

Mary Quant was an influential designer of the 1960s. Analyse Mary Quant's fashion designs and evaluate why her fashion designs were popular with teenagers. Give examples of her work in your answer.

[12 marks]

12



0	4
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Describe the key design styles of Punk and explain how Punk has influenced designers and helped to shape fashion since the 1970s.

[9 marks]

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The production of denim jeans can have a negative impact on the environment. Explain the reasons for this negative impact and how it can be reduced.

[9 marks]

9

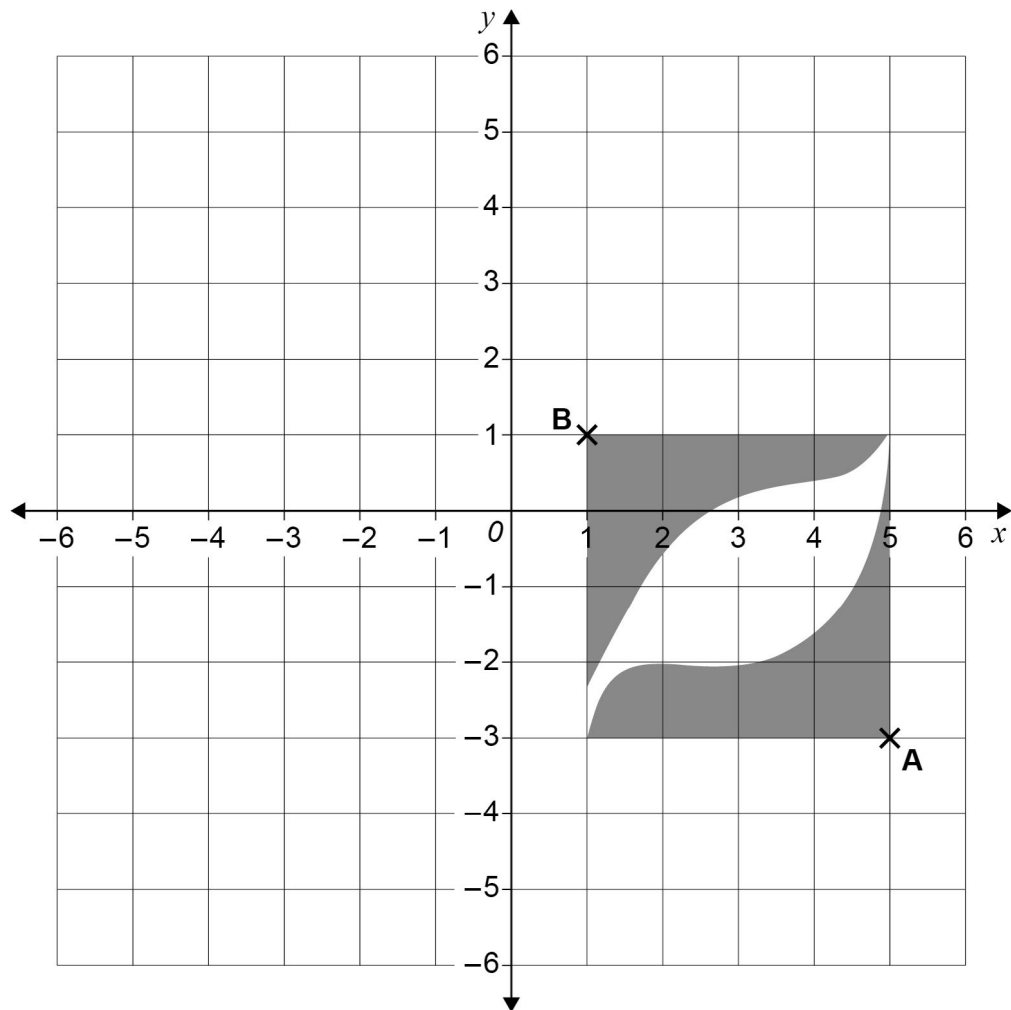
Turn over ►



0 6

Figure 4 shows a stitched logo.

Figure 4



0 6 . 1

Give the coordinate for datum point **A**.

[1 mark]

0 6 . 2

The logo is enlarged from the datum point **A** by a scale factor of 2.Give the new coordinate for datum point **B**.

[1 mark]

2



0 **7**

A main fabric and a lining fabric are required to make a waistcoat. The main fabric costs £8.32 per metre and 0.75 metres of fabric is needed for each waistcoat.

The total fabric budget for producing 1200 waistcoats is £9000

Two different widths of lining fabric are available to use:

- lining fabric A: £2.80 per metre (33% less than main fabric is required)
- lining fabric B: £4.60 per metre (64% less than main fabric is required).

Calculate the cost of each fabric and state which lining fabric is within the total fabric budget.

You **must** show your working.

[4 marks]

4

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