



**Surname** \_\_\_\_\_

**Forename(s)** \_\_\_\_\_

**Centre Number** \_\_\_\_\_

**Candidate Number** \_\_\_\_\_

**Candidate Signature** \_\_\_\_\_

**I declare this is my own work.**

**A-level**

**DESIGN AND TECHNOLOGY:  
FASHION AND TEXTILES**

**Paper 1 Technical Principles**

**7562/1**

**Wednesday 5 June 2024 Afternoon**

**Time allowed: 2 hours 30 minutes**

**At the top of the page, write your surname and forename(s), your centre number, your candidate number and add your signature.**

**[Turn over]**



J U N 2 4 7 5 6 2 1 0 1

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**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.
- Answer ALL questions.
- You must answer the questions in the spaces provided. Do not write on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- 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.

**DO NOT TURN OVER UNTIL TOLD TO DO SO**



**Answer ALL questions in this section.**

<b>0</b>	<b>1</b>
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**Complete TABLE 1, on page 5, by inserting the correct textile term from the list below next to its description.**

**Do NOT use any term more than once. [6 marks]**

**Bouclé**

**Chambray**

**Corduroy**

**False twist**

**Herringbone**

**Madras**

**Organdie**

**Sateen**



TABLE 1

DESCRIPTION	TEXTILE TERM
A lightweight crisp fabric with a transparent appearance	
A yarn with snarls and crinkles made through heat setting	
A checked pattern made with brightly coloured cotton yarns	
A three-ply yarn with irregular loops along its length	
A smooth weft-faced fabric with a very high lustre	
A cut pile fabric with rows running parallel to the selvage	

[Turn over]



0 2

Give **THREE** reasons for using linings in fashion garments. [3 marks]

1 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3



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Study the data shown in TABLE 2.

**TABLE 2**

**SALES OF DIFFERENT TROUSER TYPES 2001–2021  
IN THOUSANDS**

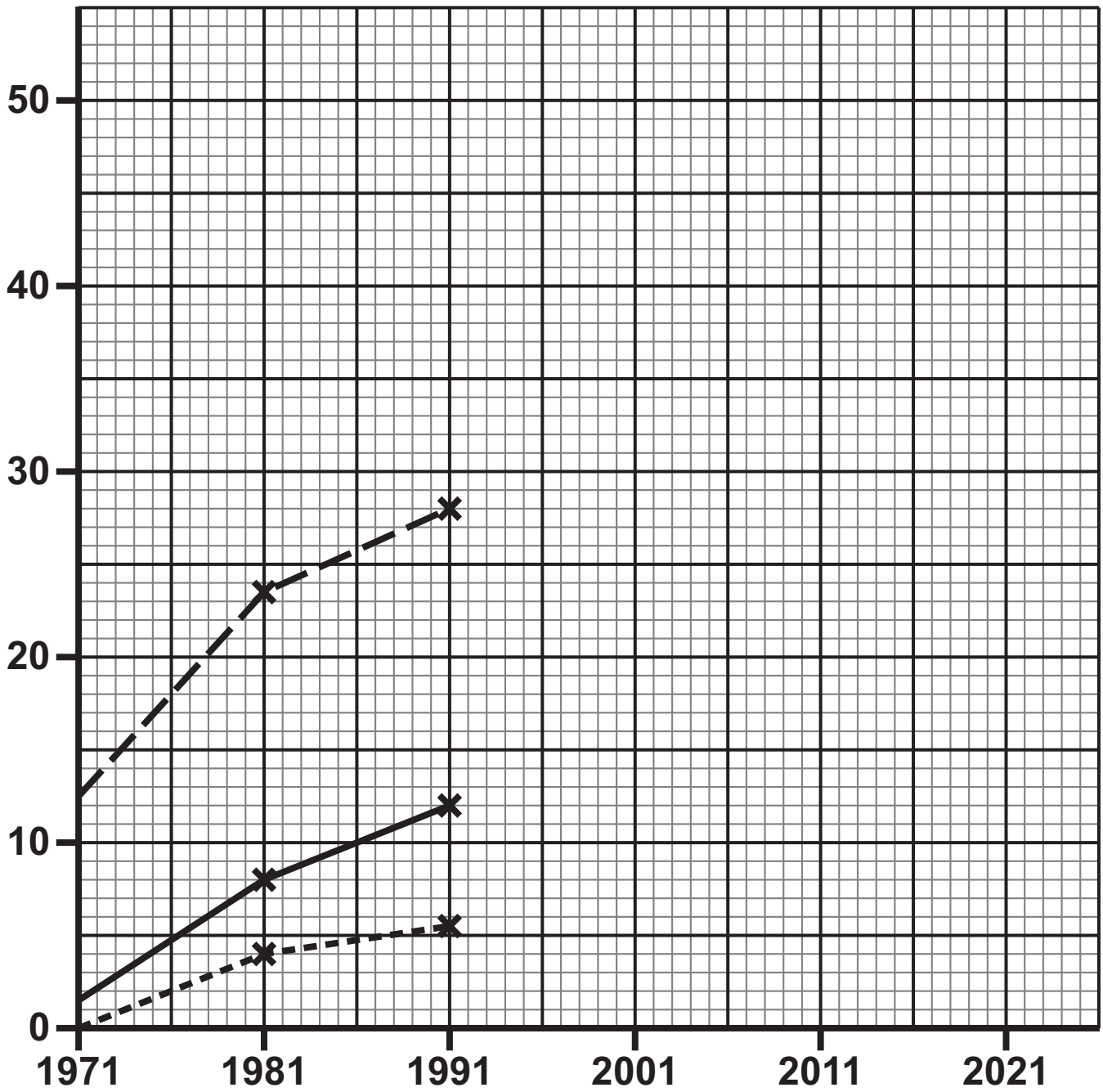
YEAR	TROUSER TYPE		
	LEGGINGS	JEANS	JOGGERS
2001	18 500	37 500	15 000
2011	22 500	34 250	29 500
2021	24 000	31 750	43 750



Complete the graph using the data given in TABLE 2, on the opposite page. [3 marks]

**SALES OF DIFFERENT TROUSER TYPES 2001–2021**

Thousands



Year

KEY — Leggings    - - Jeans    . . . Joggers

3
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[Turn over]









0 7

A factory manufactures the hoodie shown in FIGURE 1.

FIGURE 1



0 7 . 1

Use the data in TABLE 3 to calculate the cost of all materials required to make ONE hoodie.

Put your answer in the table. [1 mark]

**TABLE 3**

<b>MATERIALS</b>	<b>COST PER METRE IN £</b>	<b>AMOUNT REQUIRED IN M</b>	
<b>Double jersey fabric</b>	<b>3.60</b>	<b>1.2</b>	
<b>Cord</b>	<b>1.05</b>	<b>0.8</b>	
<b>Ribbing</b>	<b>2.20</b>	<b>1.6</b>	
<b>Thread</b>	<b>0.08</b>	<b>3.5</b>	
<b>Answer £</b>			

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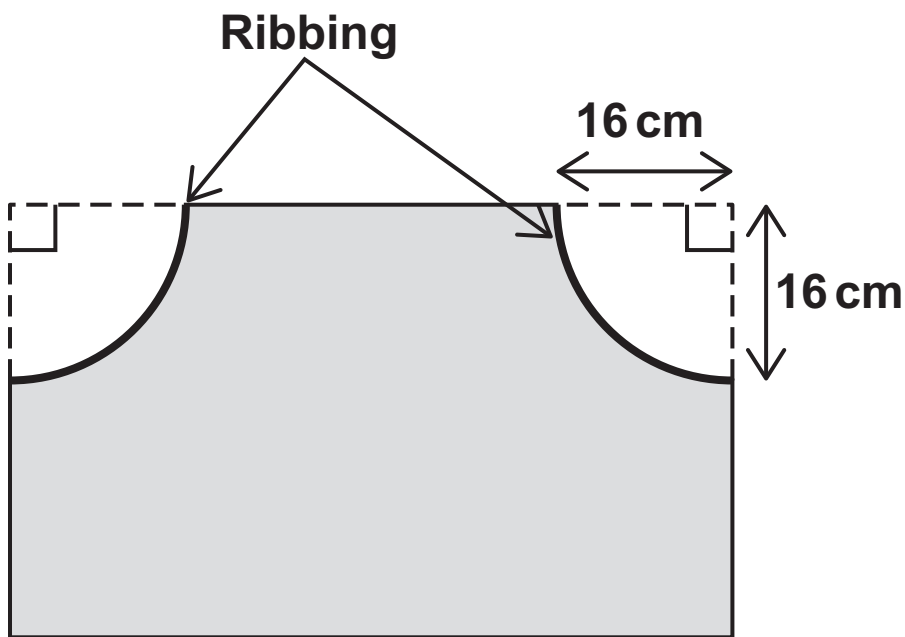
07.5

FIGURE 2 shows a template for the hoodie pocket.

It has ribbing on both pocket openings.

FIGURE 2

NOT DRAWN TO SCALE



Calculate the length of ribbing needed to make the pocket.

Show your working. [3 marks]

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6

[Turn over]



0	9
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Give **THREE** different types of mechanical finishes.  
[3 marks]

1 \_\_\_\_\_

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\_\_\_\_\_

2 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3







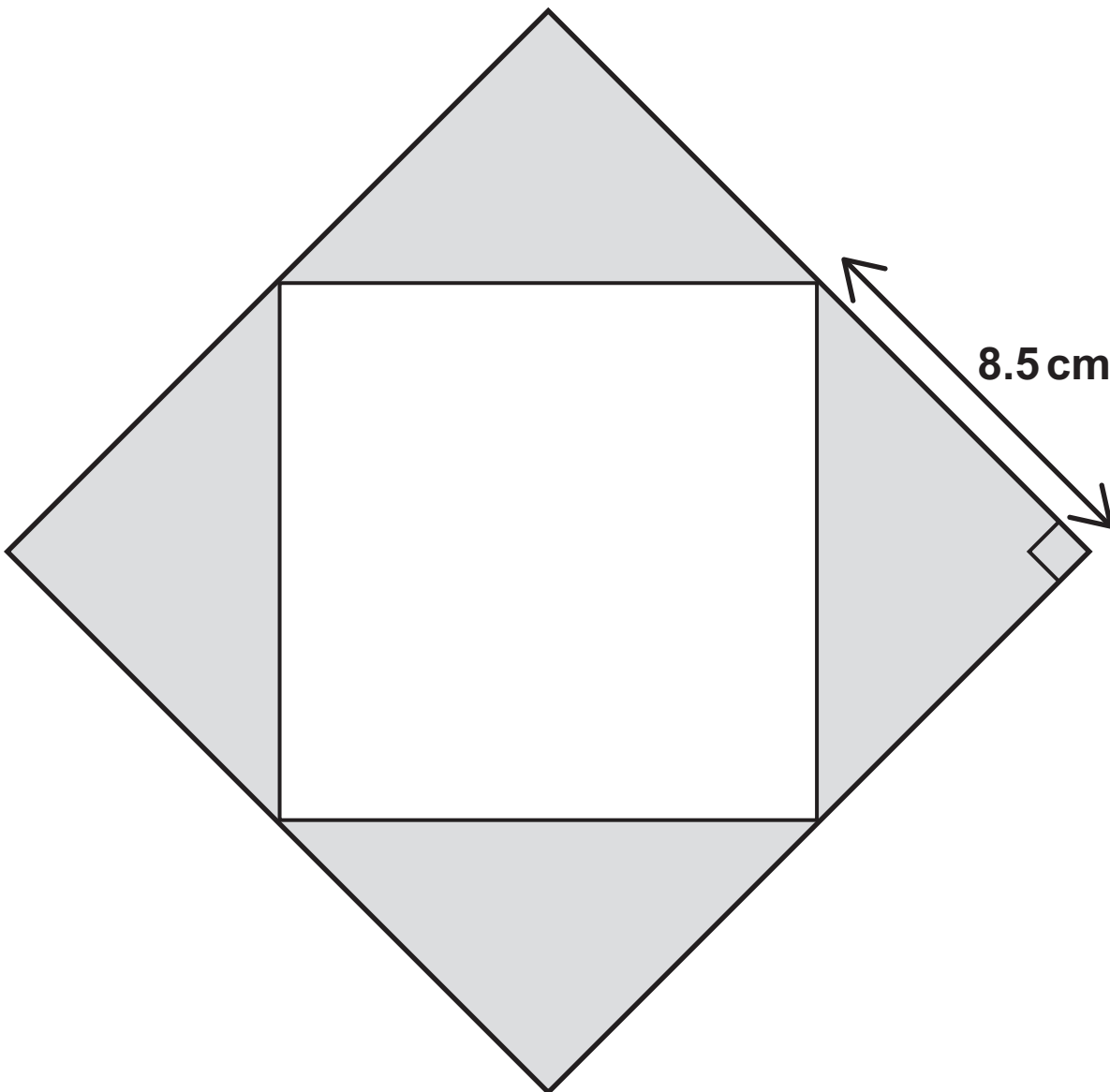


1	3
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Calculate the area of the centre square of the quilted pattern shown in FIGURE 3. [3 marks]

FIGURE 3

NOT DRAWN TO SCALE





1 4 . 1

Give ONE example of a laminated fabric. [1 mark]

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1 4 . 2

Explain what is meant by a laminated fabric. [2 marks]

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3



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6

[Turn over]





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6

**[Turn over]**

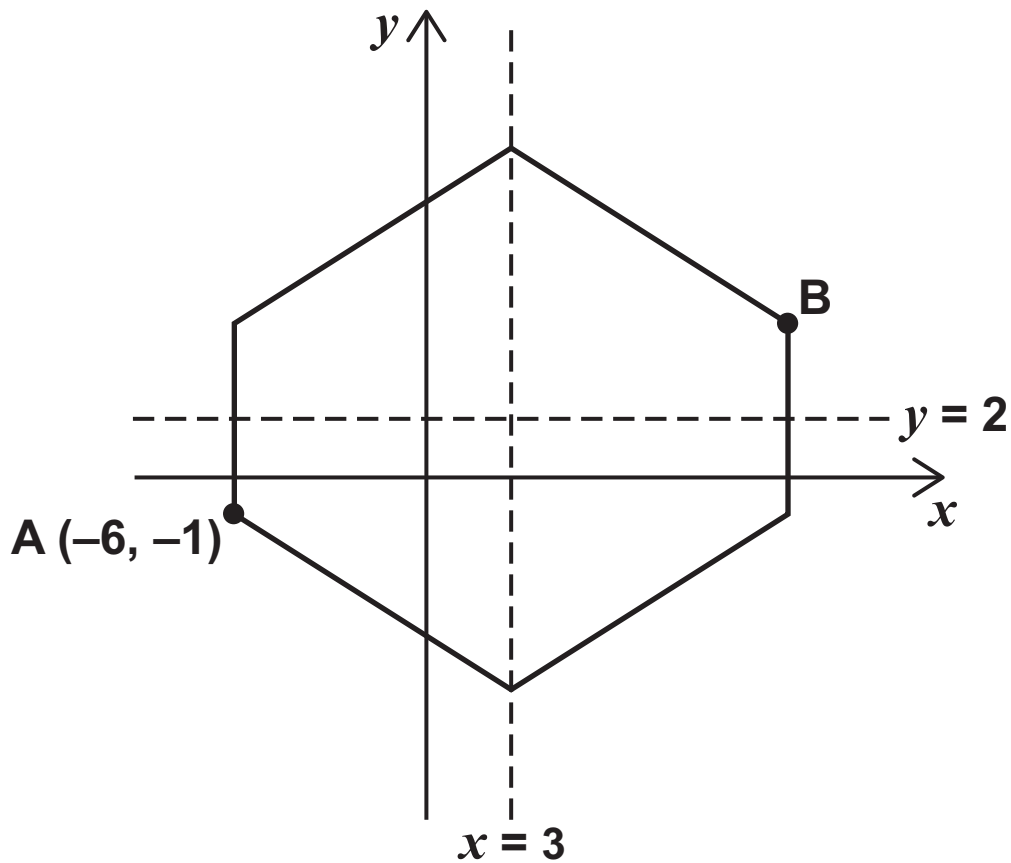


1	8
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FIGURE 4 shows a hexagon for an embroidered motif.

FIGURE 4

NOT DRAWN ACCURATELY



$y = 2$  and  $x = 3$  are lines of symmetry.



Work out the coordinates of POINT B. [2 marks]

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Answer ( \_\_\_\_\_ , \_\_\_\_\_ )

2

[Turn over]







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12



2	0
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**Give TWO reasons why carbon and ceramic fibres are often used in the production of nano-fibres. [2 marks]**

**Reason 1** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Reason 2** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2

**[Turn over]**















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For Examiner's Use	
Question	Mark
1	
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20	
21	
<b>TOTAL</b>	

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**G/KL/Jun24/7562/1/G4001/V3**



5 2



2 4 6 A 7 5 6 2 / 1