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I declare this is my own work.

A-level

**DESIGN AND TECHNOLOGY:
FASHION AND TEXTILES**

Paper 2 Designing and Making Principles

7562/2

Wednesday 12 June 2024 Morning

Time allowed: 1 hour 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 2 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 80.
- There are 30 marks for Section A and 50 marks for Section B.

DO NOT TURN OVER UNTIL TOLD TO DO SO



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SECTION A – PRODUCT ANALYSIS

Answer ALL questions in this section.

[Turn over]





0 1

FIGURE 1 – ICE SKATER’S COSTUME



FIGURE 1 shows a female ice skater wearing a black one-piece costume which includes a wraparound skirt. The material is decorated with red, blue and silver rhinestones. The underside of the skirt is red. On one side the costume is sleeveless, and on the other side it has a long mesh sleeve with rhinestones down the arm.



0 7

0 1 . 1

Analyse the **STYLE** of the ice skater's costume in **FIGURE 1** and evaluate its suitability for this sport. [6 marks]

[Turn over]

Vertical lines for writing.





0 1 . 2

The ice skater's costume in FIGURE 1, on page 6, is made from the following fabric:

- Fibre content: 82% polyamide/18% elastane
- Fabric structure: warp knit.

Analyse and evaluate the suitability of the fabric for the ice skater's costume in FIGURE 1. [6 marks]

[Turn over]

10 vertical lines for writing.



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[Turn over]



0 2

FIGURE 2**CHILDREN'S DUNGAREES**

FIGURE 2 shows a young girl wearing a denim one-piece. It includes trousers with a bib over the chest, held up by straps over each shoulder. The girl is wearing a T-shirt underneath the dungarees.



0 2 . 2

The children's dungarees in FIGURE 2, on page 12, are made from 99% organic cotton and 1% elastane denim fabric.

Analyse and evaluate the suitability of the fabric for children's dungarees.

In your answer refer to:

- fibres
- fabric construction
- finishing techniques.

[6 marks]



0 3

FIGURE 3

100% POLYESTER VELVET SOFA



Analyse and evaluate the suitability of 100% polyester velvet for the sofa in FIGURE 3. [6 marks]

SECTION B – DESIGN AND COMMERCIAL MANUFACTURE

Answer ALL questions in this section.

0 4 . 1

State what is meant by the term 'tolerance'. [1 mark]

0 4 . 2

Give ONE example of a specific tolerance used in the manufacture of a shirt. [1 mark]

0 5

State the role of the International Organisation for Standardisation (ISO). [1 mark]

3



0 6

Give **THREE** ways a designer can ensure that clothing for children is inclusive. [3 marks]

1 _____

2 _____

3 _____

3

[Turn over]



[Turn over]



0	8	.	1
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A batch of 750 dresses is manufactured. On inspection, 16 dresses are faulty.

Calculate the probability of randomly picking out a faulty dress from the batch.

Give your answer as a decimal to THREE decimal places.

Show your working. [2 marks]

Answer _____



0 8 . 2

FIGURE 4

Not drawn to scale

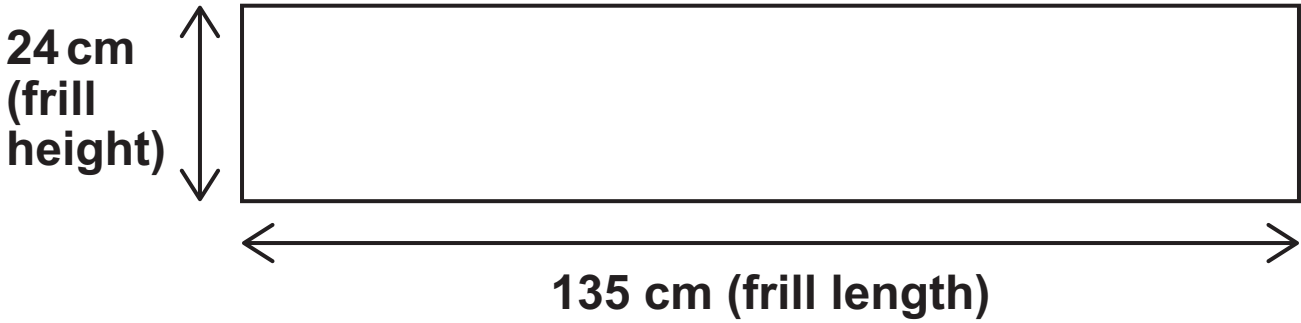


FIGURE 4 shows the pattern template for a frill on a size 18 dress.

The frill height is decreased from 24 cm to 20 cm for the size 10 dress.

The scaling ratio is the same for the frill height and the frill length.

Calculate the frill length for the size 10 dress to the nearest cm.

Show your working. [3 marks]

cm



[Turn over]

0 8 . 3

TABLE 1 shows the cost of boxes of buttons for the dress.

TABLE 1

	BOX A	BOX B	BOX C
Number of buttons in a box	750	1200	1750
Cost	£180	£252	£350

The manufacturer is required to make a batch of 175 dresses.

There are 4 buttons on the back of each dress.

The manufacturer is considering including 1 extra button on the final product for home repairs.

Calculate the increase in cost per dress for including the extra button.

Give your answer to the nearest penny.

Show your working. [3 marks]



Answer _____ p

[Turn over]



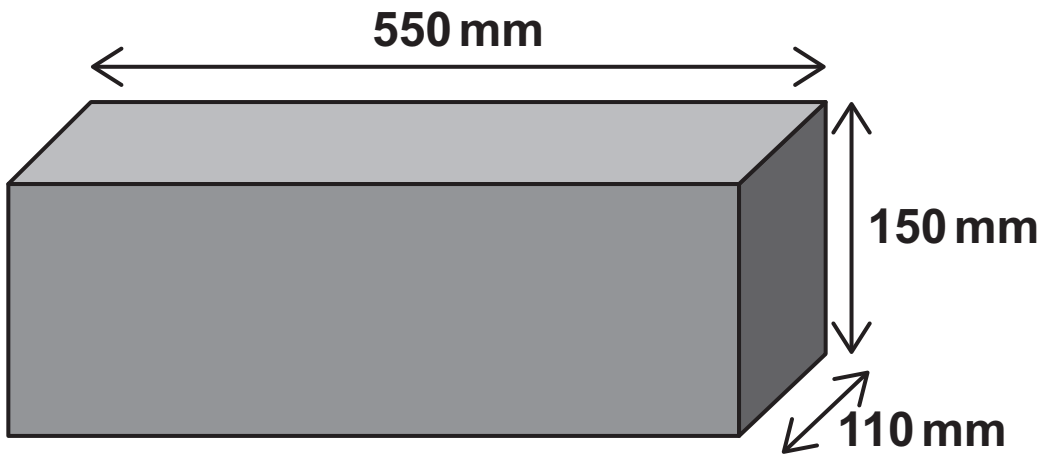
0 8 . 4

The manufacturer considers sourcing buttons from two different suppliers.

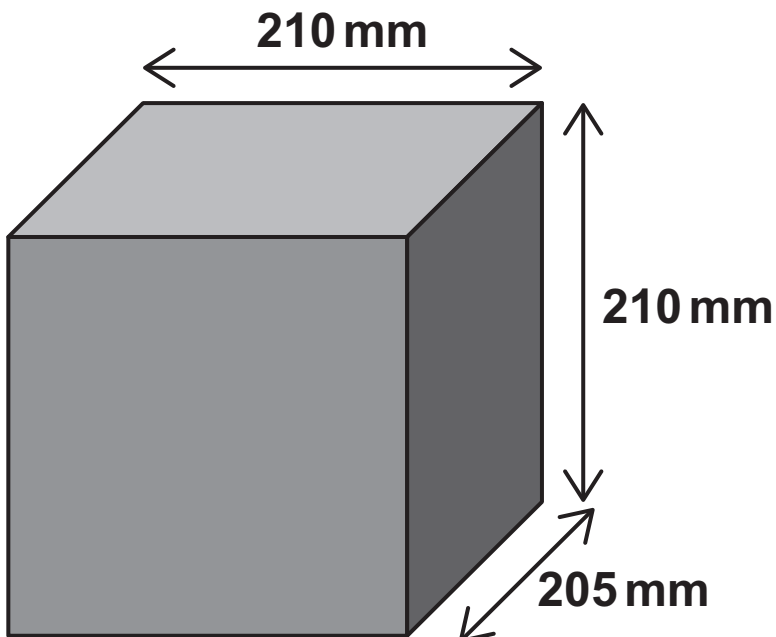
Each supplier packages the same amount of buttons in different shaped boxes, as shown in FIGURE 5.

FIGURE 5

SUPPLIER A BOX DIMENSIONS



SUPPLIER B BOX DIMENSIONS



Which supplier's box will take up less storage space in the warehouse?

You MUST show your working. [2 marks]

Supplier _____

10

[Turn over]



0 9

State **THREE** different ways to reduce the environmental impact of packaging for fashion and textile products.
[3 marks]

1 _____

2 _____

3 _____

3



9

[Turn over]



1	1	.	1
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Give TWO different ways that the DESIGN of fashion and textiles products can have a minimal environmental impact in a circular economy. [2 marks]

1 _____

2 _____

1	1	.	2
---	---	---	---

Give TWO different ways that the MANUFACTURE of fashion and textiles products can have a minimal environmental impact in a circular economy. [2 marks]

1 _____

2 _____

4



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[Turn over]



6

[Turn over]



1 3 . 1

Define the term 'dart' AND explain its purpose. [3 marks]

Definition _____

Purpose _____



1 3 . 2

Define the term 'yoke' AND explain its purpose. [3 marks]

Definition _____

Purpose _____

6

END OF QUESTIONS



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For Examiner's Use	
Question	Mark
1	
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TOTAL	

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4 2



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