

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

I declare this is my own work.

A-level

DESIGN AND TECHNOLOGY: FASHION AND TEXTILES

Paper 2 Designing and Making Principles

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.
- 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**.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
TOTAL	



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

0 1

Figure 1**1950s swimsuit: 100% linen woven fabric with lace****Figure 2****2020 swimsuit: 80% polyamide and 20% elastane knitted fabric**

Turn over for the next question

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outside the
box*

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ANSWER IN THE SPACES PROVIDED**

Turn over ►



0 5

0 2

Figure 3

100% wool coat for 5-year-old child



0 2 . 1

The coat in **Figure 3** is made from 100% wool. Analyse and evaluate the suitability of this fibre for a coat for a 5-year-old child.

[6 marks]



Turn over for Section B

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ANSWER IN THE SPACES PROVIDED**

Turn over ►



0 9

Section B – Design and Commercial ManufactureAnswer **all** questions in this section.**0 3**State the meaning of **each** of the following terms:**[3 marks]**

Balance marks _____

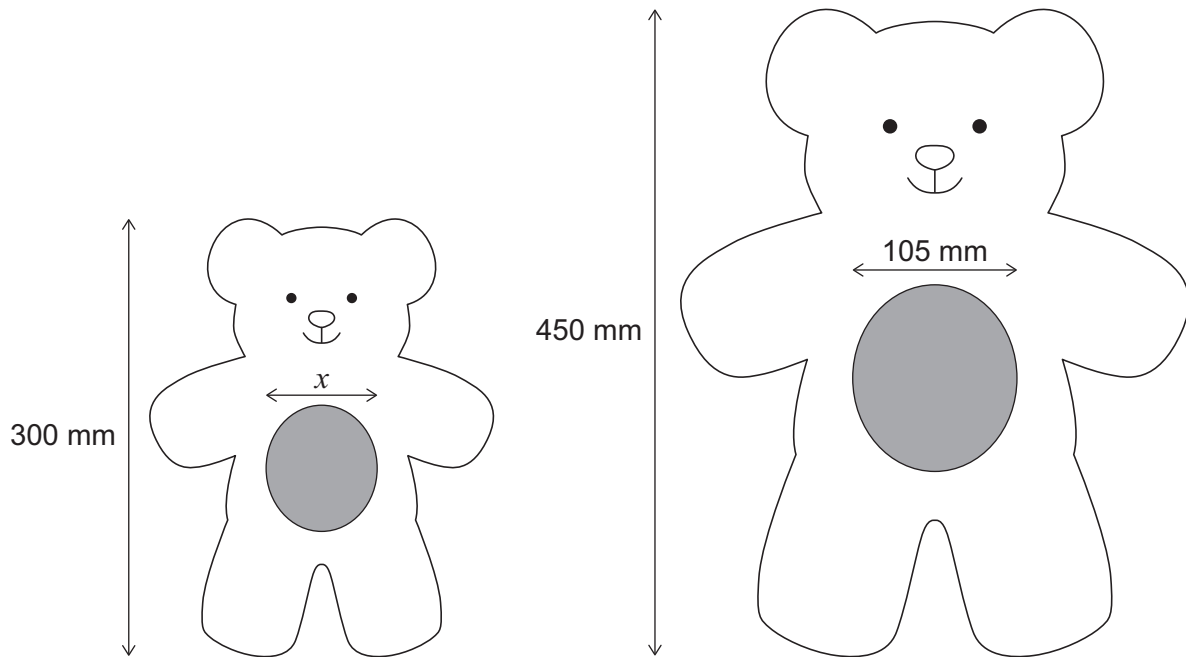
Basic block _____

Seam allowance _____

3

0 5

Figure 4
Soft toy pattern



0 5 . 1

A manufacturer makes two different sizes of the soft toy in **Figure 4**.

The larger soft toy is a scaled-up version of the smaller soft toy.

Calculate the length x .

[3 marks]

Answer _____ mm



0 5 . 2 The small soft toy costs £1.35 to produce in Japan or £1.97 in the UK.

- The cost of the small soft toy from Japan is increased by 45% to offset the carbon footprint.
- The cost of the small soft toy from the UK is decreased by 0.7% as a discount for producing locally.

Calculate the final costs.

State whether it is cheaper to source the small soft toy from Japan or from the UK.

You **must** show your working.

[2 marks]

Answer: cheaper to source from _____

Question 5 continues on the next page

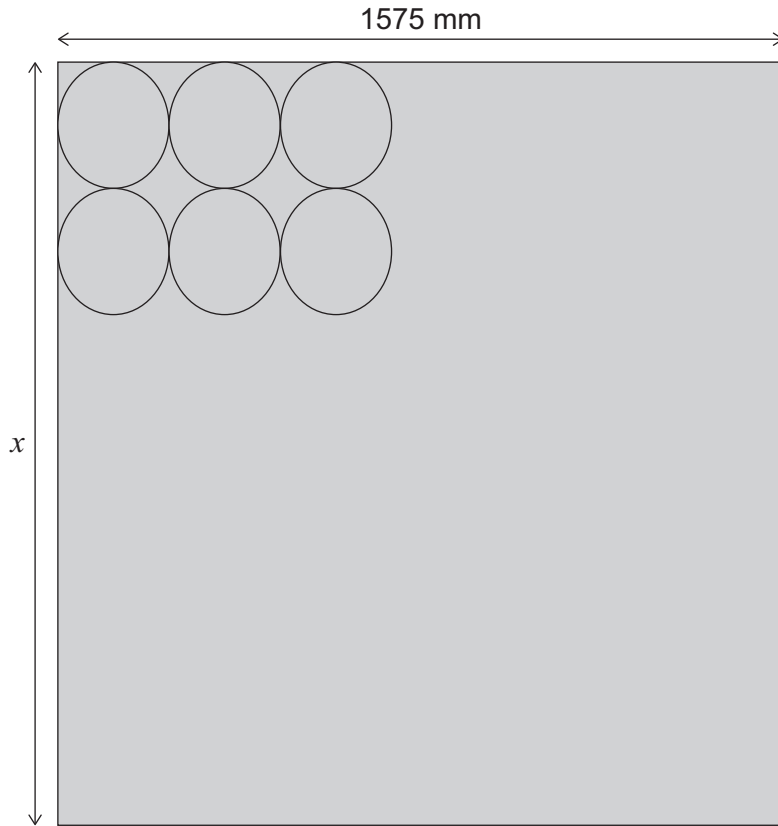
Turn over ►



0 5 . 3

Figure 5

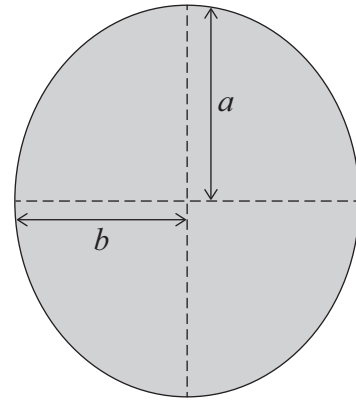
Piece of fabric with some of the oval patches shown



Not drawn to scale

Figure 6

Close-up view of one oval patch



Not drawn to scale

The oval patches on the soft toy are cut from one piece of fabric which is 1575 mm wide as shown in **Figure 5** and **Figure 6**.

$a = 60 \text{ mm}$

$b = 52.5 \text{ mm}$

Calculate the minimum length of fabric (length x) required for a batch of 1350 **large** soft toys.

[2 marks]

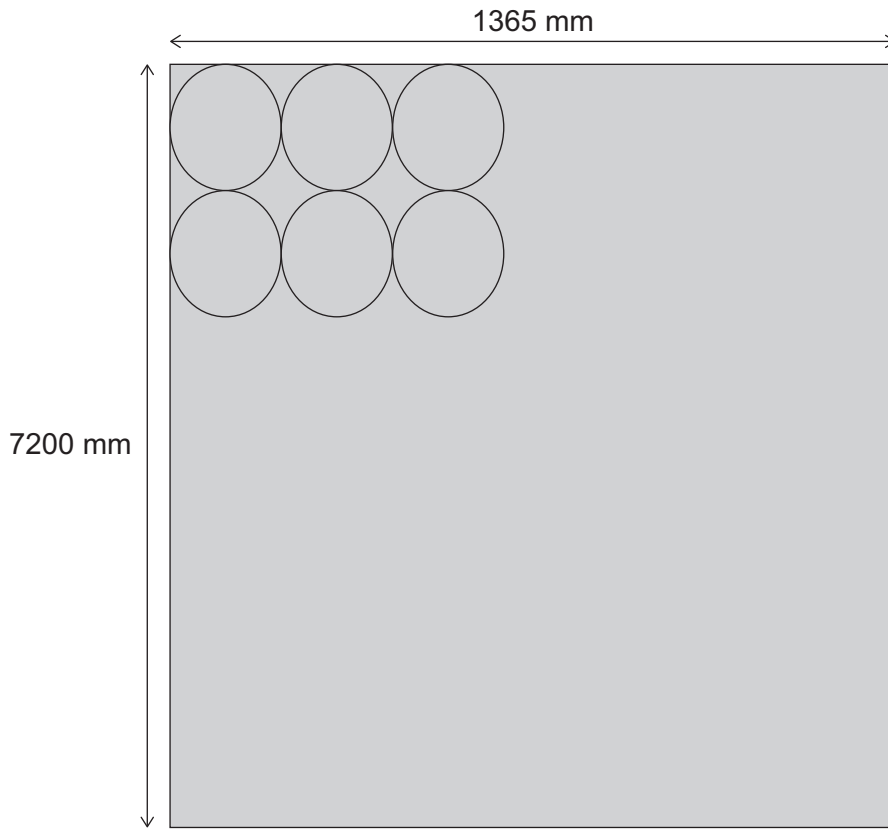
Answer _____ mm



0 5 . 4

Figure 7

New batch fabric with some of the oval patches shown



Not drawn to scale

A new batch of 780 large soft toys is made from a different fabric which is 1365 mm wide and 7200 mm long as shown in **Figure 7**.

The area of the oval is πab

$a = 60 \text{ mm}$

$b = 52.5 \text{ mm}$

Calculate the percentage of waste fabric after the ovals have been removed for the new batch of large soft toys.

[3 marks]

Answer _____ %

10

Turn over ►



0 7

Figure 8
A fashion bag

Front

Back



Describe **four different** quality control checks for the bag in **Figure 8**.

[4 marks]

1 _____

2 _____

3 _____

4 _____

4

Turn over ►



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