



Surname \_\_\_\_\_

Other Names \_\_\_\_\_

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

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

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

I declare this is my own work.

**A-level**

# **DESIGN AND TECHNOLOGY: FASHION AND TEXTILES**

**Paper 2 Designing and Making Principles**

**7562/2**

**Time allowed: 1 hour 30 minutes**

**For this paper you must have:**

- normal writing and drawing instruments
- a scientific calculator.

**At the top of the page, write your surname and other names, your centre number, your candidate number and add your signature.**

**[Turn over]**



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

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## 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**



## SECTION A – PRODUCT ANALYSIS

Answer ALL questions in this section.

0	1
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### FIGURE 1

Trims, pleats and decorative fabric on the bodice of a special occasion dress

The image shows a white dress with lots of beads arranged in a pattern around the waist area. Above the beads, the material is pleated.



Analyse the use of trims, pleats and decorative fabric shown in FIGURE 1 and evaluate their suitability for a special occasion dress. [6 marks]

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02.1

**FIGURE 2****1920s Football kit**

**Figure 2 shows a boy in white shorts and a long sleeved, heavy looking top with a collar. He wears long, thick socks and boots.**



**FIGURE 3****2020s Football kit**

**Figure 3 shows a girl in orange shorts and matching short sleeved top. There is a name and number on the top. She wears long orange socks and white sports shoes.**



**Analyse the STYLE of the football kits in FIGURE 2 and FIGURE 3 and evaluate their suitability for sportswear. [6 marks]**

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**[Turn over]**



[illegible]

02.2

The football kits have the following fibre content:

**FIGURE 2**

<b>Jumper</b>	<b>100% wool</b>
<b>Socks</b>	
<b>Shorts</b>	<b>100% cotton</b>

**FIGURE 3**

<b>Top</b>	<b>71% nylon 26% polyester 3% elastane</b>
<b>Socks</b>	
<b>Shorts</b>	

Compare and contrast the performance characteristics of the FIBRES used in the football kits in FIGURE 2 and FIGURE 3. [6 marks]

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**Justify the use of weft knitted fabric for the 1920s football kit in FIGURE 2. [6 marks]**

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0	2	.	4
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**Justify the use of warp knitted fabric for the 2020s football kit in FIGURE 3. [6 marks]**

[illegible]

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24

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**SECTION B – Design and Commercial Manufacture**

**Answer ALL questions in this section.**

0	3	.	1
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**Give THREE different fabric performance tests for furnishing fabric. [3 marks]**

**Test 1** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Test 2** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Test 3** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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03.2

**Explain why furnishing fabric is tested in different ways before its use in public places. [6 marks]**

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9

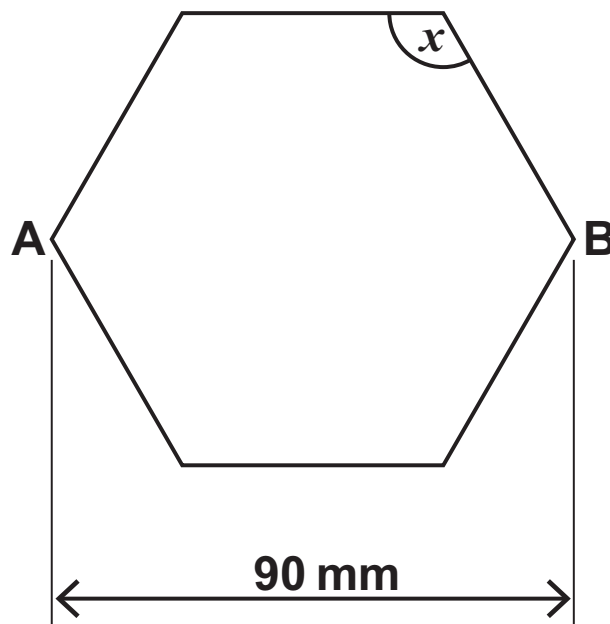
[Turn over]



04.1

**FIGURE 4**

**Fabric ball and arrangement of pentagons to make the ball**



The ball in FIGURE 4 is made from 12 separate regular pentagons stitched together.

Each join of two pentagons requires 94 mm of thread.

Calculate how much thread is needed to make the ball.  
[2 marks]

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**Answer** \_\_\_\_\_ mm



0	4	.	2
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In a sample of 40 balls, SEVEN have faulty stitching.

Calculate the probability of ONE ball in the sample, picked at random, having faulty stitching.

Give your answer to TWO decimal places. [2 marks]

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Answer \_\_\_\_\_

0	4	.	3
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The manufacturer has been asked to make a larger ball.

The small ball requires 15g of stuffing.

The large ball requires 17% more stuffing than the small ball.

Calculate the total amount of stuffing required for a batch of 12 000 large balls. [2 marks]

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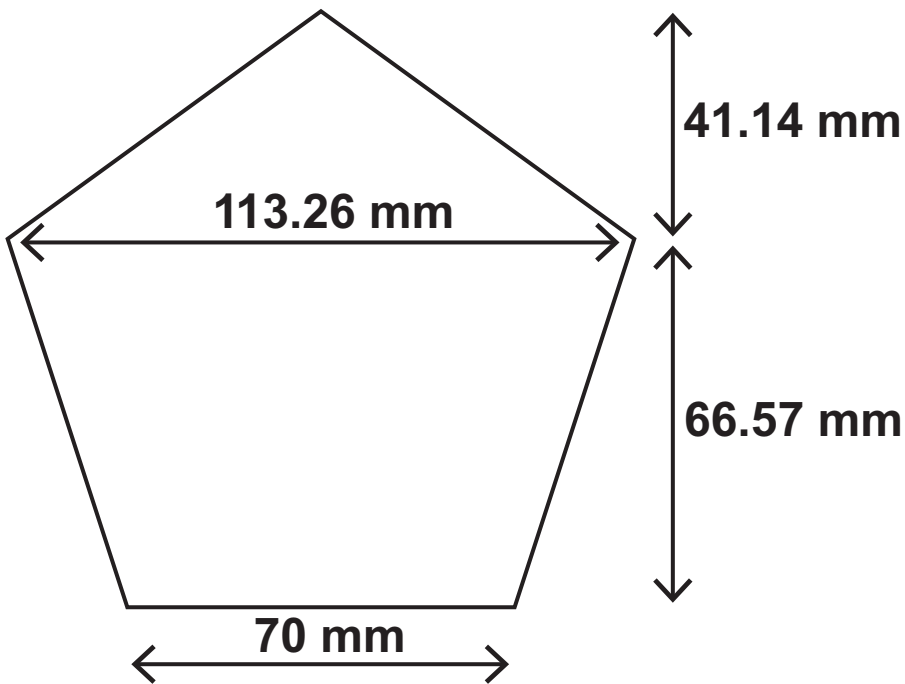
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Answer \_\_\_\_\_ g



0	4	.	4
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**FIGURE 5****Pentagon**

**Calculate the area of the pentagon in FIGURE 5.**  
**[4 marks]**

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Answer \_\_\_\_\_ mm<sup>2</sup>

10

[Turn over]



0	5
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**Outline THREE ways that designers and manufacturers of children's soft toys can meet health and safety standards. [3 marks]**

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

\_\_\_\_\_

\_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

**3** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

<b>3</b>



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0	6
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**Describe Paul Poiret's fashion designs and explain how his work went on to influence 1920s Art Deco fashion.**

**Give examples of his work in your answer. [9 marks]**

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**Fashions have a limited life span from new style to outdated look.**

**Identify and explain the stages in a product life cycle. [6 marks]**

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6

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**Give TWO principles of Total Quality Management (TQM).  
[2 marks]**

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

\_\_\_\_\_

\_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

<b>2</b>



0	9	.	1
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**State what is meant by the following terms: [2 marks]**

**Fabric nap** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Pattern repeat** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**[Turn over]**



0	9	.	2
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## Explain the impact of fabric nap and pattern repeat on the design and manufacture of garments.

**Give examples of specific fabrics in your answer.  
[6 marks]**

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**State what is meant by the term upcycling. [1 mark]**

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1



1	1
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**Give TWO environmental benefits of making garments from fully fashioned knitted panels. [2 marks]**

**Benefit 1** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Benefit 2** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

<b>2</b>

**END OF QUESTIONS**



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

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3 8



2 2 6 A 7 5 6 2 / 2