



Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

AS DESIGN AND TECHNOLOGY: FASHION AND TEXTILES

Paper 1 Written Paper

Monday 13 May 2019

Afternoon

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 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 45 marks in **Section A** and 35 marks in **Section B**.

For Examiner's Use

| Pages | Mark |
|--------------|------|
| 2–3 | |
| 4–5 | |
| 6–7 | |
| 8–9 | |
| 10–11 | |
| 12–13 | |
| 14–15 | |
| TOTAL | |



J U N 1 9 7 5 6 1 W 0 1






IB/G/Jun19/E5


7561/W


Section A: Technical PrinciplesAnswer **all** questions in this section.

Questions 1.1 and 1.2 are multiple-choice questions. Only **one** answer per question is allowed.

For each question completely fill in the circle alongside the appropriate answer.

CORRECT METHOD  WRONG METHODS    

If you want to change your answer you must cross out your original answer as shown. 

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. 

0 1 . 1 Which of the following is a regenerated fibre?

- A** Acrylic
- B** Linen
- C** Polyamide
- D** Viscose

[1 mark]

0 1 . 2 Which of the following fabrics is a plain weave?

- A** Drill
- B** Gabardine
- C** Sateen
- D** Voile

[1 mark]

0 3

A retailer sells fabric to 55 customers in one day. The length of fabric sold per metre to each customer is summarised in the table.

0 3 . 1

Complete the table to find the class widths and frequency densities.

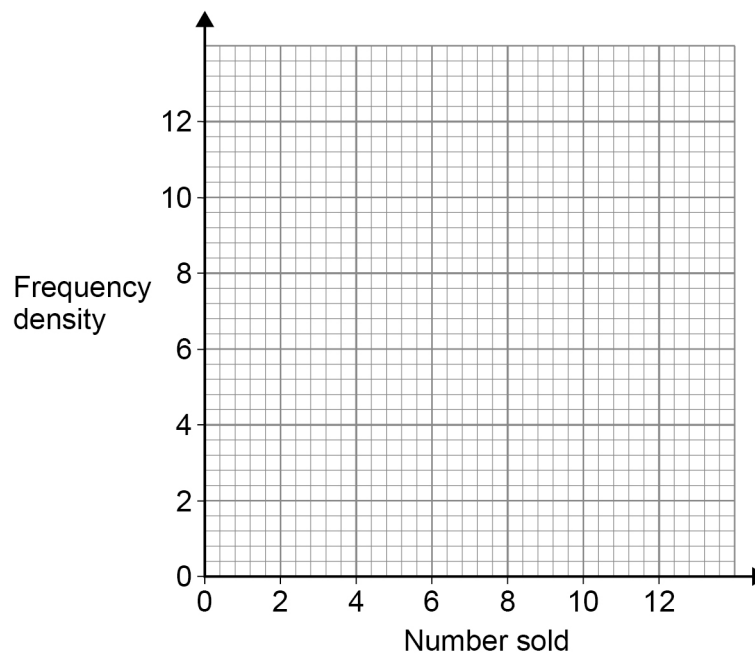
[2 marks]

| Length, L , of fabric (in metres) | Frequency | Class width | Frequency density |
|-------------------------------------|-----------|-------------|-------------------|
| $0 < L \leq 2$ | 16 | | |
| $2 < L \leq 4$ | 20 | | |
| $4 < L \leq 7$ | 15 | | |
| $7 < L \leq 9$ | 4 | | |

0 3 . 2

Draw a histogram to represent the data.

[1 mark]



0 4

Explain the importance of twist when spinning yarns.

[2 marks]

0 5

Define the term colourfastness.

[2 marks]

0 6

Explain how wool fabrics can shrink when washed.

[3 marks]

10

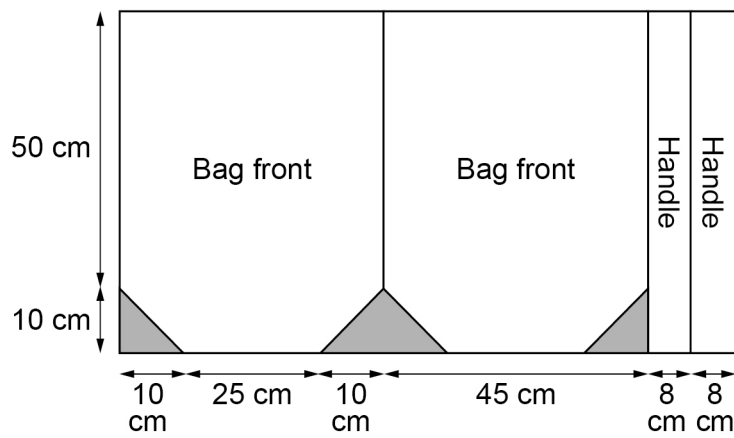
Turn over for the next question

Turn over ►



1 0

A bag is made from four pieces of plain fabric, as shown in the diagram below.



The shaded areas show fabric that is wasted.

1 0 . 1

Calculate the percentage of wasted fabric to the nearest whole number.

Show your working.

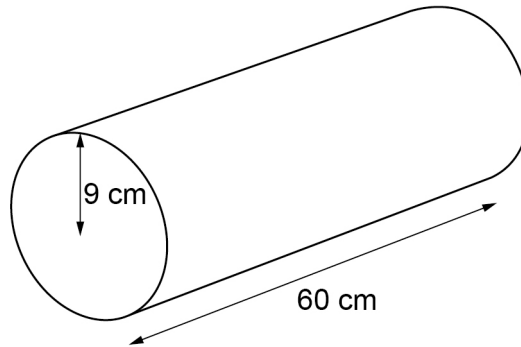
[4 marks]

Answer: _____



1 3

The diagram below shows a bolster cushion, with a radius of 9 cm and a length of 60 cm

**1 3 . 1**

Giving your answer to the nearest whole number, calculate the volume of filling required for the cushion.

[2 marks]

1 3 . 2

Why is your answer to Question **13.1** likely to be higher than the actual volume of filling needed?

[1 mark]

| |
|---|
| 9 |
|---|

Turn over for the next question

Turn over ►

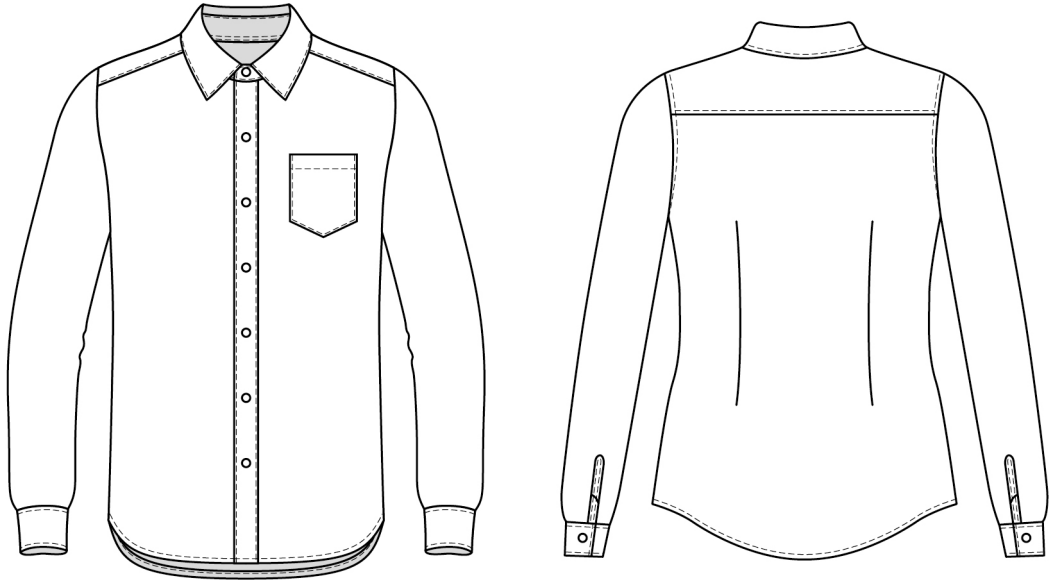


1 6

Identify **three** different areas on the shirt below where quality control is critical to ensure the shirt meets manufacturing tolerances.

Explain why each quality check identified is important.

[6 marks]



1 _____

2 _____

3 _____



There are no questions printed on this page

*Do not write
outside the
box*

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**

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1 6



1 9 6 A 7 5 6 1 / W

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