



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 14 May 2018

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

Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
TOTAL	



J U N 1 8 7 5 6 1 W 0 1

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Section A: Technical PrinciplesAnswer **all** questions in this section.**Question 1** is a multiple-choice question. Only **one** answer is allowed.

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**Which **one** of the following is a chemical finish?**[1 mark]**

- A** Brushing to raise fibres from fabric surface
- B** Calendaring to smooth fabric surface
- C** Heat setting thermoplastic fibres to give permanent pleats
- D** Treating cotton fabric to make it flame retardant

1

0 4

Complete the table below to give the type of woven structure for each named fabric.

An example has been completed for you.

[5 marks]

Fabric name	Type of woven fabric structure
Chiffon	Plain weave
Denim	
Gabardine	
Velvet	
Calico	
Terry towelling	

5

0 5 . 1

Describe the type of production system used to manufacture a seasonal high street fashion top.

Explain how manufacturers ensure that processes, systems and the workforce keep up with changes in demand.

[6 marks]

Turn over ►



0 5 . 2

The high street fashion top includes standardised components.

Give **three** advantages of using standardised components when manufacturing a garment.

[3 marks]

1 _____

2 _____

3 _____

0 5 . 3

A manufacturer produces fashion tops. In a batch of 2600 fashion tops, 9% are faulty.

The manufacturer introduces further training for the workforce in order to reduce the number of faulty fashion tops.

A new batch of 1250 is now produced. The percentage of faulty fashion tops in this batch is reduced by 12%

Work out the number of faulty fashion tops in each batch, to the nearest whole number. Show your working.

[3 marks]

12



1	1
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In a survey, students were asked about their preference for style of school bag. Each student had one vote only.

Complete the table to show the results of the survey for presentation in a pie chart.

Show your working.

[3 marks]

Style of school bag	Number of votes	Percentage of votes (%)	Pie chart degrees (°)
Rucksack	72		
Shoulder bag	45		
Tote bag	33		

Use this space for your working.

3



Turn over for the next question

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outside the
box*

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

Turn over ►



1 2

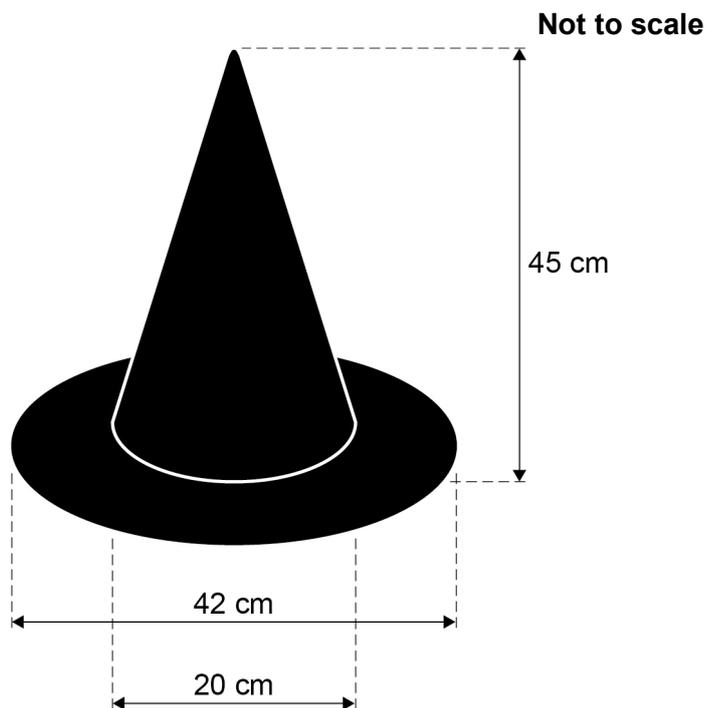
A fancy dress costume includes a witch's hat made of felt.

- One piece of felt is used for the cone shape (excluding the base of the cone).
- Two rings of felt are used for the brim as it is a double thickness.

Work out the amount of felt used for each hat, excluding the waste fabric. Give your answer to two significant figures.

Curved surface area of cone = $\pi r \sqrt{h^2 + r^2}$ where r is the radius of the cone base and h is the vertical height of the cone.

Show your working.



[6 marks]

Use this space and the following page for your working.



There are no questions printed on this page

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outside the
box*

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ANSWER IN THE SPACES PROVIDED**

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