



Cambridge International AS & A Level

CANDIDATE NAME



CENTRE NUMBER

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CANDIDATE NUMBER

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DESIGN & TECHNOLOGY

9705/32

Paper 3 A Level Written Paper

October/November 2025

2 hours 30 minutes

You must answer on the question paper.

You will need: Standard drawing equipment
Coloured pencils
Calculator

INSTRUCTIONS

- Answer **all** questions.
- Use a black or dark blue pen.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- You may use a pencil or coloured pencils for any sketches, drawings or rough working.
- You may use 30°/60° and 45° set squares, a pencil compass and templates/guides if appropriate for any sketches or drawings.

INFORMATION

- The total mark for this paper is 100.
- The number of marks for each question or part question is shown in brackets [].
- All dimensions are in millimetres, unless otherwise stated.

This document has **16** pages. Any blank pages are indicated.





Answer all questions.

1 Fig. 1.1 shows details of a holder for business cards.

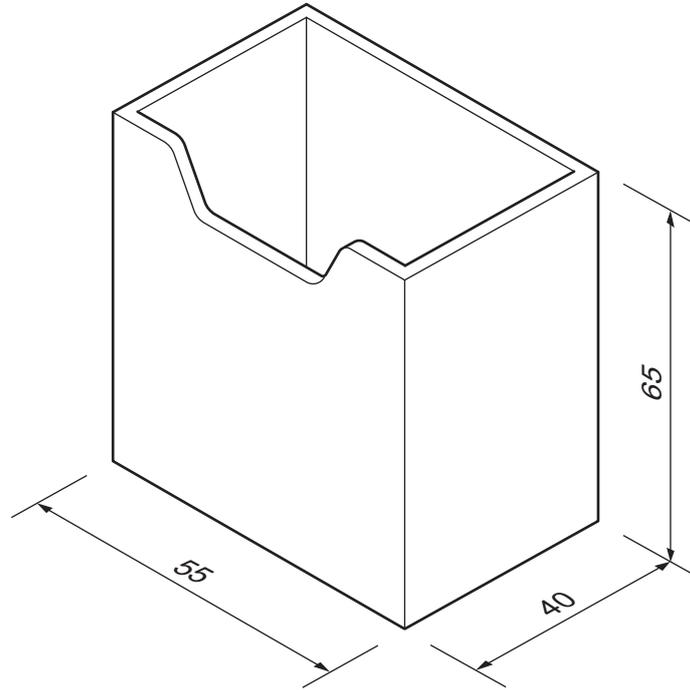


Fig. 1.1

(a) State a suitable material for the holder shown in Fig. 1.1.

Give **two** reasons to justify your choice.

Material

Reason 1

.....

Reason 2

.....

[3]

DO NOT WRITE IN THIS MARGIN





(b) Use sketches and notes to show how you would make **one** holder as shown in Fig. 1.1 in a school workshop.

In your response, you should give details of any tools and equipment you would use.

DO NOT WRITE IN THIS MARGIN





- (c) Use sketches and notes to describe the changes which may be necessary to the design, manufacturing method and the material selected to produce 1000 identical holders.

DO NOT WRITE IN THIS MARGIN

[8]





DO NOT WRITE IN THIS MARGIN

2 (a) Describe **one** of the stages in the product life cycle.

.....

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..... [2]

(b) Explain **two** reasons why material testing before production is important to the manufacturer.

1.....

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..... [4]

(c) Use sketches and notes to describe a jig that you could make in a school workshop, which would enable the cutting of 40 × 20 section hardwood into 200mm lengths.





3 (a) Identify a product that has been manufactured as one-off and describe **one** quality control check that could be carried out on the product.

product

quality control check

.....

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.....

[3]

(b) Explain **one** external quality standard used in manufacturing industries.

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..... [3]

(c) Explain **two** reasons why repair and maintenance is an important service sector in design and manufacturing industries.

1.....

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.....

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2.....

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.....

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[4]



6 A design company is to produce a holder for a digital drawing tablet, USB connector and pen.

The design specification states that the holder must be:

- easy to carry
- adjustable to allow the tablet to be supported at three different angles when in use
- manufactured as a batch of 250.

Details of the digital drawing tablet, USB connector and pen are given in Fig. 6.1.

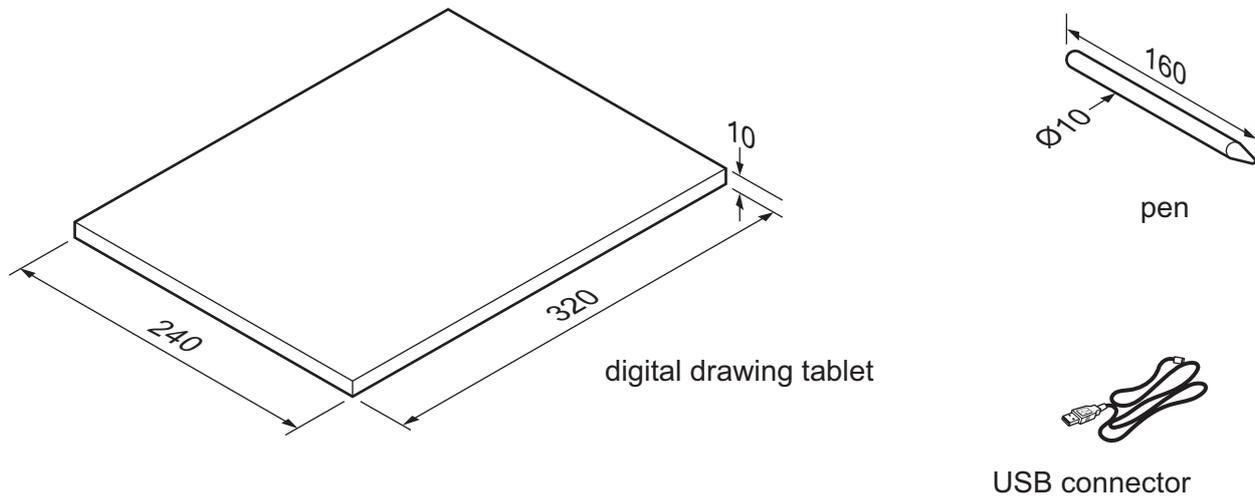


Fig. 6.1

Question 6 continues on page 10.





(a) Use sketches and notes to produce **two** different innovative ideas for the holder for a digital drawing tablet, USB connector and pen.

(i) Idea 1

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[6]



* 00080000011 *

DFD



11

(ii) Idea 2

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[6]





- (c) Use sketches and notes to develop your chosen idea to show details of functions, materials, construction and finishes.

DO NOT WRITE IN THIS MARGIN





(d) Use a method of your own choice to draw the complete design solution.

Include key details and dimensions.

DO NOT WRITE IN THIS MARGIN

[8]





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