



Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY

0417/31

Paper 3 Spreadsheets and Website Authoring

February/March 2025

2 hours 15 minutes

You will need: Candidate source files (listed on page 2)

INSTRUCTIONS

- Carry out **all** instructions in each step.
- Enter your name, centre number and candidate number on every printout before it is sent to the printer.
- Printouts with handwritten candidate details will **not** be marked.
- At the end of the examination, put all your printouts into the Assessment Record Folder.
- If you have produced rough copies of printouts, put a cross through each one to indicate that it is **not** the copy to be marked.
- You must **not** have access to either the internet or any email system during this examination.

INFORMATION

- The total mark for this paper is 70.
- The number of marks for each question or part question is shown in brackets [].



This document has **8** pages. Any blank pages are indicated.

You have been supplied with the following source files:

m25calc.csv
m25const.htm
m25logo.jpg
m25plaster.css
m25plaster.mp4
m25spec.htm
m25text.txt

You will create a web page for Tawara Construction to advertise their plastering department.

Task 1 – Evidence Document

Create a new word-processed document.

Make sure your name, centre number and candidate number will appear on every page of this document.

Save this Evidence Document in your work area as **m25evidence_** followed by your centre number_candidate number, for example m25evidence_ZZ999_9999

You will need your Evidence Document during the examination to place screenshots when required.

Task 2 – File Management

1 Create a new folder called **plaster**

Locate only the following files and store them in your *plaster* folder.

m25const.htm
m25logo.jpg
m25plaster.css
m25plaster.mp4
m25spec.htm
m25text.txt

Display the contents of your *plaster* folder showing the folder name, all file names, file extensions, file sizes, frame height, frame width and image dimensions.

Take a screenshot of this folder, making sure that the required information is clearly visible. Place this screenshot in your Evidence Document.

[1]

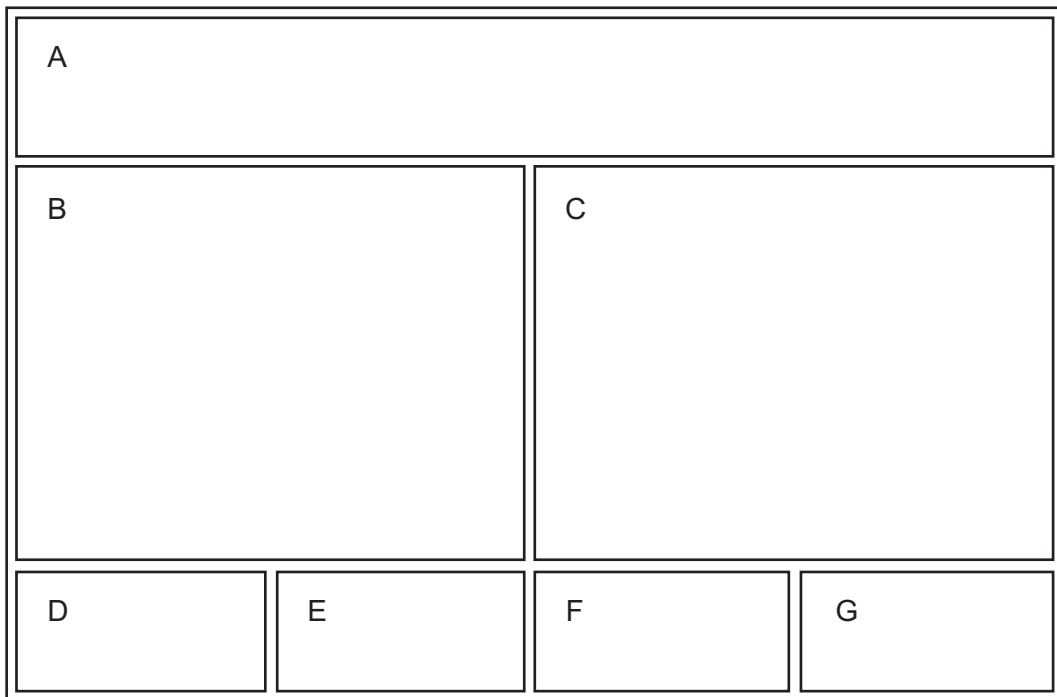
[Total: 1]

Task 3 – Web Page

You will create a web page for the Tawara Construction website.

2 Create in your *plaster* folder a web page called **m25plaster.htm**

This web page must be created using a single table and work in all browsers. The table must be centre-aligned and fit 95% of the browser window. The table must have a structure as shown in this diagram:



Each table cell is identified with a letter which must **not** appear on your final web page.

Table and cell borders must appear on the final web page.

[7]

3 Place in cell A the image **m25logo.jpg**

Set the width of this image to 100% of the cell size.

[2]

4 Place in cell B video and source tags to display **m25plaster.mp4**

Make sure that the controls are visible and the video loops when played.

Display an automated text-based error message if the browser does **not** support this video type.

[6]

- 5 Place in cell C the text from the file **m25text.txt**

Apply the paragraph style to this text.

[2]

- 6 Enter in cell D the text **Specialist plastering**

Enter in cell E the text **Other construction**

Enter in cell F the text **Contact us**

Enter in cell G the text **Edited by:** followed by a space and then your name, centre number and candidate number.

Apply the style h2 to all the text in these cells.

[5]

- 7 Make the text **Specialist plastering** a link to open the web page **m25spec.htm** in a new window called **_blank**

Make the text **Other construction** a link to open the web page **m25const.htm**

Make the text **Contact us** a link to an email editor to prepare an email to **tawara.construction@cambridge.org** with the subject line **More information please!**

[7]

*You will create a new external stylesheet for the website. All colour codes must be displayed in hexadecimal. Your stylesheet must **not** contain HTML or scripting language.*

- 8 Create a new stylesheet to meet the following specifications:

Place a comment at the start of the stylesheet to contain your name, centre number and candidate number.

Set a style for tables so that they are centre-aligned in the browser window.

Set the table and cell borders so that they are white, visible and 2 pixels wide.

Save this as an external cascading stylesheet in your *plaster* folder with the file name **m25plaster2_** followed by your centre number_candidate number, for example **m25plaster2_ZZ999_9999**

Take a screenshot to show the file name and all contents of your stylesheet. Place this in your Evidence Document. Make sure the file name and all contents are clearly visible.

[5]

- 9 Attach the stylesheet **m25plaster.css** to the web page created in Step 2.

Attach the stylesheet saved in Step 8 to this web page so that it has higher priority than *m25plaster.css*

[2]

10 Save your web page.

Take a copy of your HTML source, and place this in your Evidence Document.

Display your web page in a browser. If necessary, resize it so that:

- all the page can be seen
- all text can be easily read
- the address bar is visible.

Take screenshot evidence showing your web page in the browser. Place this in your Evidence Document.

[1]

[Total: 37]

Task 4 – Spreadsheet

You will edit a spreadsheet to calculate the surface area of walls in a room.

11 Open and examine the file **m25calc.csv**

Place left-aligned in the header the text **Created by** followed by a space, then your name, centre number and candidate number.

Place right-aligned in the header the text **Created on** followed by a space, the automated date, a space, then the text **at** followed by a space, then the automated time.

Save this as a spreadsheet with the file name **m25area_** followed by your centre number_candidate number, for example m25area_ZZ999_9999

[3]

12 Insert a new row between rows 1 and 2.

In the new row 2, enter the text **All dimensions are in metres**

[2]

13 Merge cells A1 to B1.

Format this merged cell with a white 24-point sans-serif font on a black background.

Merge cells A2 to B2.

Format the spreadsheet like this:

	A	B
1	Plastering surface area calculator	
2	All dimensions are in metres	
3		
4	Room height	2.4
5	Room width	5
6	Room length	3.8
7		
8	Door height	2
9	Door width	0.85
10	Reveal depth	0.15
11		
12	Has windows	
13	Window height	0
14	Window width	0
15		
16	Has chimney	
17	Chimney width	0
18	Chimney depth	0
19		
20	Plaster area ceiling	
21	Plaster area walls	

[8]

- 14** Place in cell B12 a validation rule to restrict data entry to only the text **Yes** or **No**

Data must be selected from a drop-down list, and no other data must be allowed.

Place in your Evidence Document screenshot(s) showing the validation rules including the validation criteria.

[3]

- 15** Delete rows 16, 17, 18 and 19.

[1]

- 16** Place in cell B16 a formula to calculate the area of the ceiling.

$$\text{Area} = \text{Room length} \times \text{Room width}$$

[1]

- 17** Place in cell B17 a formula to calculate the area of the walls.

$$\text{Area} = \frac{\text{Room}}{\text{height}} \times 2 \times \left(\frac{\text{Room}}{\text{length}} + \frac{\text{Room}}{\text{width}} \right) - \left(\frac{\text{Door}}{\text{height}} \times \frac{\text{Door}}{\text{width}} \right) + \frac{\text{Reveal}}{\text{depth}} \times \left(2 \times \frac{\text{Door}}{\text{height}} + \frac{\text{Door}}{\text{width}} \right)$$

If a window is present, add this to the area of the walls within the same formula:

$$+ \frac{\text{Reveal}}{\text{depth}} \times \left(2 \times \frac{\text{Window}}{\text{height}} + \frac{\text{Window}}{\text{width}} \right) - \left(\frac{\text{Window}}{\text{height}} \times \frac{\text{Window}}{\text{width}} \right)$$

[11]

- 18** Print your spreadsheet showing the formulae. Make sure that the:

- printout is in landscape orientation
- row and column headings are displayed
- contents of all cells are fully visible.

[2]

- 19** Print your spreadsheet showing the values. Make sure that the:

- printout fits on a single page
- printout is in portrait orientation
- row and column headings are not displayed
- contents of all cells are fully visible.

[1]

[Total: 32]

Task 5 – Printing the Evidence Document

Save and print your Evidence Document. Make sure your name, centre number and candidate number appear on every page of your Evidence Document.

BLANK PAGE

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge Assessment International Education Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cambridgeinternational.org after the live examination series.

Cambridge Assessment International Education is part of Cambridge Assessment. Cambridge Assessment is the brand name of the University of Cambridge Local Examinations Syndicate (UCLES), which is a department of the University of Cambridge.