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CAMBRIDGE
International Education

Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY **0417/31**

Paper 3 Spreadsheets and Website Authoring **May/June 2026**

2 hours 15 minutes

4077271501

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 **12** pages. Any blank pages are indicated.

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[Turn over

You have been supplied with the following source files:

j26banner.jpg
j26contact.jpg
j26image.png
j26skirting.css
j26skirting.csv
j26skirting.htm
j26video.mp4

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 **j26evidence_** followed by your centre number_candidate number, for example j26evidence_ZZ999_9999

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

You work for Skirting by Sam, who sell skirting boards. A skirting board is a piece of wood that fits on the wall close to the floor of a room.

Task 2 – Images

1 Create a new folder called **skirting**

Open the file **j26image.png**

Rotate this image 90 degrees clockwise.

Reflect (flip) this image horizontally.

Save this image in your *skirting* folder in .png format with the file name **image_** followed by your centre number_candidate number, for example, image_ZZ999_9999.png

[3]

[Total: 3]

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Task 3 – File management

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

j26banner.jpg
j26contact.jpg
j26skirting.css
j26skirting.htm
j26video.mp4

Display the contents of your *skirting* 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]

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papacambridge.com

Task 4 – Web Page

You will create a web page to advertise Skirting by Sam.

3 Create in your *skirting* folder a web page called **sbs.htm**

This web page must be created using a single table and work in all browsers. The table must fit 85% of the browser window. The table must have a structure as shown in this diagram:

<table>
<tr><td colspan="2">A</td></tr>
<tr><td colspan="2">B</td></tr>
<tr><td colspan="2">C</td></tr>
<tr><td>D</td><td>E</td></tr>
<tr><td>F</td><td>G</td></tr>
</table>

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

Table borders must **not** appear on the final web page.

[7]

4 Set the title of the web page to **Skirting by Sam** [1]

5 Place in cell:

- A the image **j26banner.jpg**
- C video and source tags to display **j26video.mp4**
  Make sure that the controls are visible and the video autoplays.
  Display an automated text-based error message if the browser does **not** support this video type.
- F the image saved in step 1
- G the image **j26contact.jpg**

[8]

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6 Enter in cell B the text **Page created by** followed by a space then your name, centre number and candidate number.

Set this text in style h2.

[2]

7 Enter in cell:

- D the text **Skirting**
- E the text **Architrave**

Set this text in style h1.

[2]

8 Make the text *Skirting* a link to open the web page **j26skirting.htm** in a new window called **_new**

Make the image **j26contact.jpg** a link to an email editor to prepare an email to **sbs@cambridge.org** with the subject line **Skirting board enquiry**

[6]

9 Attach the stylesheet **j26skirting.css** to your web page.

Edit this stylesheet so that:

- style h1 has a font-size of 20-point
- margin settings are used to right align the table in the browser window.

Save this stylesheet.

Place a screenshot in your Evidence Document showing the file name and contents of the stylesheet.

[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:

- the full 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: 29]

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Task 5 – Spreadsheet

You will edit a spreadsheet to calculate the skirting boards needed for a room.

11 Open the file **j26skirting.csv**

Enter, right aligned in the footer, the text **Spreadsheet by** followed by a space then your name, centre number and candidate number.

Save this as a spreadsheet with the filename **Skirting_** followed by your centre number_candidate number, for example Skirting_ZZ999_9999

[1]

12 Merge cells A1 to D1, A3 to B3, A7 to B7, C7 to D7, A11 to B11, F2 to G2 and H2 to H3.

Format the spreadsheet to look like this:

	A	B	C	D	E	F	G	H
1	**Skirting by Sam**							
2						Skirting length (metres)		Stock length (metres)
3	**Room dimensions (metres)**					>=	<	
4	Length	5.65				0	1.2	1.2
5	Width	4.12				1.2	1.5	1.5
6						1.5	1.8	1.8
7	**Number of boards**		**Stock boards needed (metres)**			1.8	2.1	2.1
8	Length					2.1	2.4	2.4
9	Width					2.4	2.7	2.7
10						2.7	3	3
11	**Total number of boards**					3	3.3	3.3
12						3.3	3.6	3.6
13		Board 1				3.6		3.6
14		Board 2						
15		Board 3						
16		Board 4						
17		Board 5						
18		Board 6						
19		Board 7						
20		Board 8						

Centre align the empty cells in the ranges B8:D9 and C11:C20.

[6]

Skirting boards can only be bought in certain lengths. These are called stock lengths. Cells H4 to H13 show the stock lengths available. When fitting skirting boards, you buy a bigger length than needed and cut it down. The maximum stock length available is 3.6 metres.

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Examine cells F3 to H13. Columns F and G show the length of skirting board needed and column H shows the corresponding stock length you buy. For example:

- for lengths less than (<) 1.2 metres, you would buy a 1.2 metre stock length
- for lengths greater than or equal to (>=) 1.2 metres and less than (<) 1.5 metres, you would buy a 1.5 metre stock length.

13 Create a named range with the name **Slength** for cells F4 to H13.

Place a screenshot of this named range in your Evidence Document showing the name and range of cells.

[2]

If a wall is less than or equal to 3.6 metres long, a single board can be used. If a wall is greater than 3.6 metres long, two skirting boards are needed. No wall will be greater than 7.2 metres long.

14 Enter in cell B8 a formula to divide the length of the room by the longest *Skirting length (metres)* in column F. Edit this formula so that the results are rounded up to the nearest whole number. [2]

15 Enter in cell B9 a formula to divide the width of the room by the longest *Skirting length (metres)* in column F. Edit this formula so that the results are rounded up to the nearest whole number. [1]

16 Enter in cell D8 a formula that displays the value held in cell H13 if more than one board is needed for the length. If only one board is needed for the length, the formula must display a value of 0.

Enter in cell D9 a formula that displays the value held in cell H13 if more than one board is needed for the width. If only one board is needed for the width, the formula must display a value of 0.

[5]

17 Enter in cell C8 a formula to subtract the contents of cell D8 from the length of the room.

Enter in cell C9 a formula to subtract the contents of cell D9 from the width of the room.

Edit both of these formulas to look up and display the stock length needed. You must use the named range *Slength* in your formulas.

[6]

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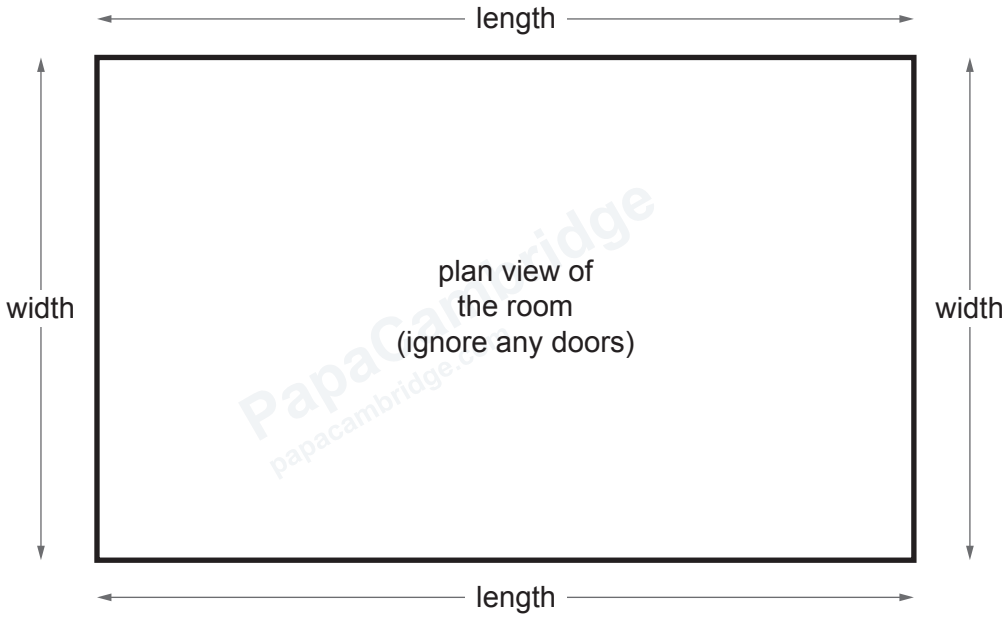
18 Enter in cell C11 a formula to calculate the **total** number of boards needed for a room.



[2]

Cells in the range C13 to C20 will hold the stock length of each board that needs to be bought for this room.

19 Enter a formula in cell C13 to display the value held in C8. Enter the same formula in cell C14.

Enter a formula in cell C15 to display the value held in C9. Enter the same formula in cell C16.

Enter a formula in cell C17 to display the value held in D8. Enter the same formula in cell C18.

Enter a formula in cell C19 to display the value held in D9. Enter the same formula in cell C20.

[3]

20 Restrict the data entry in cells B4 and B5 so that a minimum length of **1** metre and a maximum length of **7.2** metres can be entered.

Take screenshots of the rule applied to each cell and place these in your Evidence Document. Make sure that the rule and the cell it is applied to are clearly visible in each screenshot.

[6]

21 Save your spreadsheet.

Print your spreadsheet showing the formulas. Make sure that:

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

[2]

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22 Print your spreadsheet showing the values. Make sure that:

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

[1]

[Total: 37]

Task 6 – Printing the Evidence Document

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

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