Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY   **0417/31**

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

TRbanner.png
TRdevelop.htm
TRracing.css
TRtest.csv
TRtext.txt
TRvideo.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 **j2531evidence_** followed by your centre number_candidate number, for example j2531evidence_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 **racing**

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

TRbanner.png
TRdevelop.htm
TRracing.css
TRtext.txt
TRvideo.mp4

Display the contents of your *racing* folder, showing the folder name and 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.
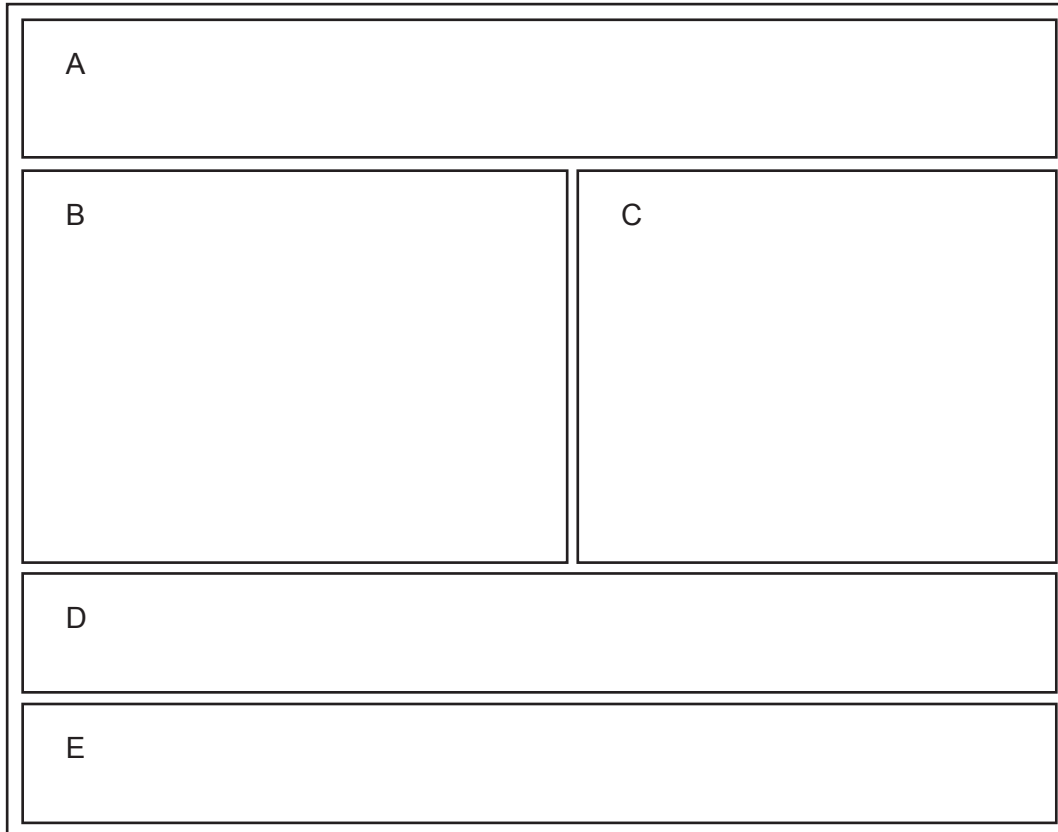
[1]

[Total: 1]

Task 3 – Web Page

You will create a web page to advertise Tawara Racing, who race motor cars.

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

This web page must be created using a single table and work in all browsers. The table must be left-aligned and fit 90% of the browser window. The table must have a structure as shown in this diagram:

```
+-------------------------------------------------------+
|  +-------------------------------------------------+  |
|  | A                                               |  |
|  |                                                 |  |
|  +-------------------------------------------------+  |
|  +--------------------------+ +--------------------+  |
|  | B                        | | C                  |  |
|  |                          | |                    |  |
|  |                          | |                    |  |
|  |                          | |                    |  |
|  |                          | |                    |  |
|  |                          | |                    |  |
|  +--------------------------+ +--------------------+  |
|  +-------------------------------------------------+  |
|  | D                                               |  |
|  |                                                 |  |
|  +-------------------------------------------------+  |
|  +-------------------------------------------------+  |
|  | E                                               |  |
|  |                                                 |  |
|  +-------------------------------------------------+  |
+-------------------------------------------------------+
```

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

Table borders must appear on the final web page.

[6]

3   Set the title of the web page to **Tawara Racing**   [1]

4   Place in:

- cell A the image **TRbanner.png**
- cell B video and source tags to display **TRvideo.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.

[7]

5 Enter in cell C the text from the file **TRtext.txt**

Set this text as style h3.

[2]

6 Enter in cell D the text **Click here to find out more about our exciting developments, or here for job opportunities.**

Enter in cell E the text **Web page created by:** followed on a new line by your name, centre number and candidate number.

Set all the text in cells D and E as style h2.

[4]

7 Make the text **exciting developments** a link to open the web page **TRdevelop.htm** in a new window called **_blank**

Make the text **job opportunities** a link to an email editor to prepare an email to **Tawara.Racing@cambridge.org** with the subject line **Job opportunities**

[6]

8 Attach the stylesheet **TRracing.css** to your web page.

Edit this stylesheet so that the table borders are **not** collapsed.

Save this stylesheet.

[2]

9 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]

Task 4 – 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.

5

Task 5 – Spreadsheet

You will assist Tawara Racing to analyse performance data when testing their racing cars.

10 Open and examine the file **TRtest.csv**

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

Place in the footer 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 filename **TestData_** followed by your centre number_candidate number, for example TestData_ZZ999_9999

[3]

11 Enter the missing lap numbers in column A.

[1]

12 Place a replicable formula in cell F14 to calculate the time in seconds taken for this lap.

For example: if the minutes = 1, seconds = 14 and thousandths of a second = 484 this cell should display 74.484

1 minute = 60 seconds

Display the data in cell F14 to 3 decimal places.

Replicate this formula for all laps.

[6]

13 Insert ten rows between rows 1 and 2.

Move the contents of cells H13 to H20 into cells A3 to A10.

[2]

14 Merge cells A1 to F1.

Format this merged cell with a black 36-point sans-serif font on a yellow background.

Merge cells A12 to F12.

Format rows 1 to 13 of the spreadsheet to look like this:

	A	B	C	D	E	F
1	Test data for supercharger on the practice circuit					
2						
3	Fastest lap time:					
4	Slowest lap time:					
5	Average lap time:					
6	Laps with supercharger on:					
7	Laps with supercharger off:					
8	Supercharger on:					
9	Supercharger off:					
10	Result:					
11						
12	Lap times					
13	Lap	Supercharger	Minutes	Seconds	Thousandths of a second	Lap time
14	1	Off	1	14	484	74.484
15	2	On	1	12	675	72.675

[7]

15 Place in cell B3 a formula to display the fastest lap time from the data displayed. [2]

16 Place in cell B4 a formula to display the slowest lap time. [1]

17 Place in cell B5 a formula to display the average lap time. [1]

18 Place in cell B6 a formula to display the number of laps where the *Supercharger* was **On** [3]

19 Place in cell B7 a formula to display the number of laps where the *Supercharger* was **Off** [1]

20 Place in cell B8 a formula to calculate the average lap time when the *Supercharger* was **On** [4]

21 Place in cell B9 a formula to calculate the average lap time when the *Supercharger* was **Off** [2]

22 Place in cell B10 a formula to display **SC success** if the average lap times were faster with the supercharger on or to display **SC failed** if not.

Save your spreadsheet.

[4]

23 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]

24 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: 40]

8

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