



Cambridge IGCSE™ (9–1)

INFORMATION AND COMMUNICATION TECHNOLOGY

0983/03

Paper 3 Data Analysis and Website Authoring

For examination from 2020

SPECIMEN PAPER

2 hours 30 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 on 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 80.
- The number of marks for each question or part question is shown in brackets.

This document has **10** pages. Blank pages are indicated.



Candidate source files:

TTSBanner.png
TTSbranches.csv
TTSOffer.png
TTSstaff.csv
TTSstyle.css
TTtext1.txt
TTtext2.txt
Wallpaper.png

Task 1 – Evidence Document

- Create a document in a word processing application. Make sure your name, centre number and candidate number will appear on every page by placing these details in the header.
- Save the document in your work area with the name **Evidence_** followed by your candidate number, for example **Evidence_9999**

You will need your Evidence Document during the examination to display images, text and screenshots when required.

Task 2 – Data Analysis

- Open and examine the files **TTSstaff.csv** and **TTSbranches.csv** in a spreadsheet application.
- Save the file **TTSbranches.csv** as a spreadsheet with the name **TTSanalysis_** followed by your centre number and candidate number, for example, **TTSanalysis_ZZ999_9999**
- Save the file **TTSstaff.csv** as a spreadsheet with the name **TTSsales_** followed by your centre number and candidate number, for example, **TTSsales_ZZ999_9999**

In your **TTSanalysis** spreadsheet:

- Place your name, centre number and candidate number, centre aligned in the footer of the page.
- In cell C1 add the text **Branch Sales**
- Insert a new row above Row 1.
- Merge the cells A1 to C1.
- In the merged cell add the text **TTS sales 2019**
- Format the merged cell so that:
 - the text is centre aligned with a red 24-point serif font
 - it has a green fill
 - it has a solid black border.
- Wrap the text in cells A2 and C2.
- Format the cells A2 to C2 as:
 - bold
 - centred horizontally and vertically.

- Adjust the cell widths so all data is visible.
- Save the *TTSanalysis* spreadsheet.

[11]

In your **TTSsales** spreadsheet:

- Place your name, centre number and candidate number, centre aligned in the header of the page.
- In cell E1 enter the text **Branch**
- In cell E2 enter a function to use the Branch code to lookup the Branch from the **TTSanalysis** file.
- Replicate this formula for each member of staff.
- Save the *TTSsales* spreadsheet.
- Print only the data for the *Almere* and *Amsterdam* branches showing the formulae. Make sure:
 - it is in landscape orientation
 - the row and column headings are displayed
 - the contents of all the cells are fully visible.

PRINTOUT 1

Make sure that you have entered your name, centre number and candidate number on the spreadsheet showing the formulae.

[10]

- Keeping the data in ascending order of Branch, sort the *TTSsales* data so that the sales for the members of staff in the branch are in descending order.
- Save the *TTSsales* spreadsheet.
- Print the data for the *Naples* and *Porto* branches showing the values. Make sure:
 - it is in portrait orientation
 - the row and column headings are **not** displayed
 - the contents of all the cells are fully visible.

PRINTOUT 2

Make sure that you have entered your name, centre number and candidate number on the spreadsheet showing the values.

[5]

In your **TTSanalysis** spreadsheet:

- Sort the data so that the branches are in ascending order.
- In cells C3 to C12 enter functions to calculate the total sales for each branch.
- Save the *TTSanalysis* spreadsheet.

- Print the spreadsheet showing the formulae. Make sure:
 - it is in landscape orientation
 - row and column headings are displayed
 - the contents of all the cells are fully visible.

PRINTOUT 3

Make sure that you have entered your name, centre number and candidate number on the spreadsheet showing the formulae.

[5]

- Print the spreadsheet showing the values. Make sure:
 - it is in portrait orientation
 - row and column headings are **not** displayed
 - the contents of all the cells are fully visible
 - the table is centred horizontally on the page.

PRINTOUT 4

Make sure that you have entered your name, centre number and candidate number on the spreadsheet showing the table.

[4]

- Extract only those branches with sales greater than \$4 million.
- Print the spreadsheet showing the extracted data. Make sure:
 - it is in portrait orientation
 - row and column headings are **not** displayed
 - the contents of all the cells are fully visible
 - the table is centred horizontally on the page.

PRINTOUT 5

Make sure that you have entered your name, centre number and candidate number on the spreadsheet showing the extract.

[5]

- Create and fully label a chart to compare the data for all of the branches.
- Print only the chart.

PRINTOUT 6

Make sure that you have entered your name, centre number and candidate number on the chart.

[5]

- In cell B13 add the text **Total Sales** and format the text as bold.
- In cell C13 insert a formula to calculate the total of the branch sales.

- Format the value as bold.
- In cell D2 add the text **Target Sales**, wrap and centre the text and format it as bold.
- In cell D13 insert a formula to increase the value of the Total Sales by a percentage. Use trial and error to work out the smallest percentage increase necessary to reach a Target Sales value of \$50 000 000.
- Replicate this formula for all the branches.
- Print the spreadsheet showing the formulae. Make sure:
 - it is in landscape orientation
 - row and column headings are displayed
 - the contents of all the cells are fully visible.

PRINTOUT 7

Make sure that you have entered your name, centre number and candidate number on the spreadsheet showing the formulae.

[5]

- Print only the data showing the values. Make sure:
 - it is in portrait orientation
 - the row and column headings are **not** displayed
 - the contents of all the cells are fully visible.

PRINTOUT 8

Make sure that you have entered your name, centre number and candidate number on the spreadsheet showing the values.

[2]

Task 3 – Web Page

- Create a new folder called **TTSWeb** in your work area.
- Locate the following files and copy them to your *TTSWeb* folder.
TTSBanner.png **TTtext1.txt**
TTSOffer.png **TTtext2.txt**
TTSstyle.css **Wallpaper.png**
- Edit the TTSBanner.png image so that there is space the same size as the text above and below the text. It should look like this:



- Save the image as **TTSBanner.jpg**

EVIDENCE 1

Place a copy of the TTSBanner.jpg image in your Evidence Document.

[2]

- Create a web page named **TTShomepage.html** in your *TTSWeb* folder

This web page must work in any browser and contain a table with a structure as shown below. The width of the table is set in the stylesheet and the height of the rows will be set by their contents.

| | |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><Insert the TTSBanner.jpg image here> <Add appropriate alternate text to this image></p> | |
| <p>How we can support you <i>set in style h1</i></p> | |
| <p><Insert TTSoffer.png image here> <Add appropriate alternate text to this image></p> | <p><Insert the text in the TTtext1.txt file here> <i>set in style h3</i></p> |
| | <p>We can: <i>set in style h2</i> <Insert the text in the TTtext2.txt file here> <i>set as an unordered list</i></p> |
| <p>Click here to contact us, <i>set in style h3</i></p> | <p>Website maintained by: <Name, centre number, candidate number> <i>set in style h3</i></p> |

- Insert the text shown in bold.
- Replace the text in <chevrons> with the image and text as instructed.
- Save the web page.
- Open the stylesheet *TTSstyle.css* in your editor.
- Edit the stylesheet to use the *Wallpaper.png* image as the background of the web page.

[8]

- Using the most efficient methods, add the following styles to the stylesheet. All colour codes must be in hexadecimal.

| | |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| table | <i>Position:</i> Centre aligned within the browser window <i>Size:</i> 600 pixels wide <i>Borders:</i> No visible borders <i>Cells:</i> Cell spacing 0 pixels Cell padding 10 pixels |
| h1 | <i>Colour:</i> Red <i>Font:</i> Arial or if not available Calibri , or if not available the browser's default sans-serif font 36 points Centre aligned |
| h2 | <i>Colour:</i> Red <i>Font:</i> Arial or if not available Calibri , or if not available the browser's default sans-serif font 24 points Left aligned |
| h3 | <i>Colour:</i> Blue <i>Font:</i> Arial or if not available Calibri , or if not available the browser's default sans-serif font 14 points Justified |
| List style | <i>Colour:</i> Blue <i>Font:</i> Arial or if not available Calibri , or if not available the browser's default sans-serif font 14 points Justified |

- Save the stylesheet in your *TTSWeb* folder as **TTSstyle_** followed by your candidate number e.g. **TTSstyle_9999.css**

EVIDENCE 2

Place a screenshot of the stylesheet in your Evidence Document. Make sure the all the details of the styles are readable.

[12]

- Open the *TTSHomepage.html* file in an editor. Attach the stylesheet to your *TTSHomepage.html* web page.
- Create a hyperlink from the text 'here' in 'Click here to contact us' to send an email to **info@tawaratechnology.com** with the subject line **Support enquiry**

EVIDENCE 3

Take a copy of the HTML source of the web page and place this in your Evidence Document.

- Open the *TTShomepage.html* file in a browser.

EVIDENCE 4

Place a screenshot of the web page in your Evidence Document. Make sure that all of the browser window is displayed.

- Print your Evidence Document.

PRINTOUT 9

Make sure your name, centre number and candidate number are shown on every page of your Evidence Document.

[6]

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.

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