

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)

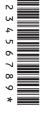
INSTRUCTIONS

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.



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.

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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

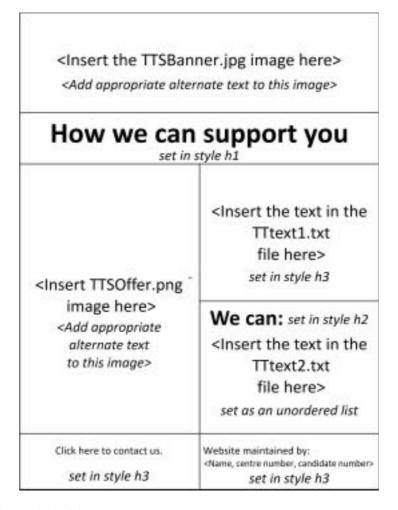
EVIDENCE 1

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.



- Insert the text shown in bold.
- Replace the text in <chevrons> with the image and text as instructed.
- Save the web page.

[8]

- Open the stylesheet TTSstyle.css in your editor.
- Edit the stylesheet to use the *Wallpaper.png* image as the background of the web page.

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

table Position: Centre aligned within the browser window

Size: 600 pixels wide
Borders: No visible borders
Cells: Cell spacing 0 pixels
Cell padding 10 pixels

h1 Colour: Red

Font: Arial or if not available Calibri, or if not available the browser's default

sans-serif font **36** points **Centre** aligned

h2 Colour: Red

Font: Arial or if not available Calibri, or if not available the browser's default

sans-serif font **24** points **Left** aligned

h3 Colour: Blue

Font: Arial or if not available Calibri, or if not available the browser's default

sans-serif font 14 points Justified

List style Colour: Blue

Font: 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]

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