Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY **0417/32**

Paper 3 Spreadsheets and Website Authoring **May/June 2024**

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.

[Turn over

You have been supplied with the following source files:

j32banner.jpg
j32contact.jpg
j32feed.mp4
j32giraffe.csv
j32logo.png
j32sightings.csv
j32text.txt
j32web.css
j32what.htm
j32what.jpg

Giraffes are endangered species only found in parts of Africa. You will analyse data on giraffes that have been rescued, tagged and returned to the wild.

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 document in your work area as **j32evidence_** followed by your centre number_candidate number, for example j32evidence_ZZ999_9999

You will use this as your Evidence Document during the examination.

Task 2 – Spreadsheet

1 Open and examine the file **j32giraffe.csv**

This file will be used in steps 2 and 3. Do **not** make any changes to this file.

Open and examine the file **j32sightings.csv**

Save the file *j32sightings.csv* as a spreadsheet with the filename **Giraffe_** followed by your centre number_candidate number, for example Giraffe_ZZ999_9999

Rows 7 to 25 will show the number of sightings of the tagged giraffes in each country for one week in February. Rows 28 onwards show the details of all sightings for this week.

Place your name, centre number and candidate number centre aligned in the header.

Place 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 in the footer.

[3]

2 Place a replicable formula in cell D28 to look up the species, using the code and the external file *j32giraffe.csv* for the array. [6]

3 Place a replicable formula in cell F28 to look up the status, using the code and the external file *j32giraffe.csv* for the array. [1]

4 Replicate the formulae entered in steps 2 and 3 for all sightings. [1]

5 Place in cell B3 a formula to count the total number of sightings for this 7 day period. [2]

6 Place in cell B4 a formula to count the total number of sightings for this 7 day period where a photograph of a critically endangered species was taken. [5]

7 Insert a new row between rows 5 and 6.

Place in cell A6 the text **Critically endangered**

[2]

8 Place a replicable formula in cell B8 to display the number of sightings of a critically endangered species in this country.

Replicate this formula for each country.

[8]

9 Format the top of your spreadsheet so that it looks like this:

	A	B
1	**Tagged giraffe sightings**	
2		
3	Number of sightings in 7 day period	70
4	Number of critically endangered sightings with photograph	12
5		
6	**Critically endangered**	
7	**Country**	**Number of sightings**
8	Botswana	0
9	Burundi	0
10	Cameroon	2

Make sure cells A1 to B1 and A6 to B6 are merged.

Set the font size of the text in rows 1 and 6 to 20 points.

Save your spreadsheet.

[7]

10 Print your spreadsheet showing the formulae. Make sure that:

- it is in landscape orientation
- the row and column headings are displayed
- all formulae are fully visible.

[2]

11 Select rows 1 to 7 inclusive and only the rows between 8 and 26 where a sighting took place.

Take a screenshot of the method used to select these rows (between 8 and 26). Place this screenshot in your Evidence Document.

Print this selection 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 displayed
- the contents of all the cells in the selected rows are fully visible.

[4]

[Total: 41]

Task 3 – File management

12 Create a new folder called **j32**

Locate only the following files and store them in your *j32* folder.

j32banner.jpg
j32contact.jpg
j32feed.mp4
j32logo.png
j32text.txt
j32web.css
j32what.htm
j32what.jpg

Display the contents of your *j32* folder, showing the folder name, all file names, file extensions, file sizes, image dimensions and the frame height and frame width for the video.

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 4 – Web page

You will create a web page to help raise awareness of giraffe conservation.

13 Create a web page called **j32web.htm** and save this in your *j32* folder.

This web page must be created using a single table and work in all browsers. The table must fit 75% of the browser window and have a structure as shown in this diagram:

```
┌─────────────────────────────────────────────────────┐
│ A                                                   │
│                                                     │
├───────────────────────────────┬─────────────────────┤
│ B                             │ C                   │
│                               │                     │
│                               ├─────────────────────┤
│                               │ D                   │
│                               │                     │
│                               ├─────────────────────┤
│                               │ E                   │
│                               │                     │
├───────────────────────────────┴─────────────────────┤
│ F                                                   │
│                                                     │
└─────────────────────────────────────────────────────┘
```

Table borders must appear on the final web page.

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

[7]

14 Set the title of the web page to **Giraffe conservation** [1]

15 Place in cell:

- A the image **j32banner.jpg**
- B a video tag to display **j32feed.mp4** so that it fits the width of this cell. This video must show the controls and play automatically when the web page opens. Display an automated text-based error message if the browser does **not** support this video type
- C the image **j32what.jpg**
- D the image **j32contact.jpg**

[7]

16 Enter in cell E the text:

Web page edited by: then on a new line enter your name, centre number and candidate number

Set this text as style h3.

[3]

17 Place in cell F the text from the file **j32text.txt**

Set this text in paragraph style.

[2]

18 Attach the stylesheet **j32web.css** to your web page. Do **not** edit this stylesheet.   [1]

19 Make the image *j32what.jpg* a link to open the web page **j32what.htm** in a new window called **_blank**

Make the image *j32contact.jpg* a link to an email editor to prepare an email to **g.raffe@cambridge.org** with the subject line **Giraffe**

[6]

20 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 fully visible.

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

[1]

[Total: 28]

Task 5 – Printing the Evidence Document

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

Save your Evidence Document.

Print your Evidence Document.

8

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