## Cambridge IGCSE ${ }^{\text {TM }}$ (9-1)

## INFORMATION AND COMMUNICATION TECHNOLOGY

## MARK SCHEME

Maximum Mark: 70

## Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.
Cambridge International is publishing the mark schemes for the May/June 2023 series for most Cambridge IGCSE, Cambridge International A and AS Level and Cambridge Pre-U components, and some Cambridge O Level components.

## Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

## GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:
Marks awarded are always whole marks (not half marks, or other fractions).
GENERIC MARKING PRINCIPLE 3:
Marks must be awarded positively:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:
Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

## GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:
Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

| Question | Answer | Marks |
| :---: | :---: | :---: |
| 1 | TAS folder <br> tiger_9999 S/shot: filenames, sizes, extensions, dimensions <br> Cropped to $500 \times 1000$ <br> tiger_9999 in PNG format <br> Tiger image rotated through $180^{\circ}$ <br> horizontal reflection <br> with all tiger visible after left and top crops <br> foliage visible on right after right crop <br> aspect ratio maintained | 8 |
| 2 | Browser viewIn browser with no letters visible <br> Table No borders/gridlines visible <br> width=80\% <br> Row 1 colspan=3 <br> Row 2 left <br> width: $58 \%$ <br> colspan="2" <br> Row 2 right rowspan="3" <br> width:42\% <br> Row 3 colspan="2" <br> Row 4 left 2 <br> width:29\%  | 10 |
| 3 | Row 2 left Video visible in correct cell <br> Row 2 right Tiger image <br> Banner \& 2 lower images in correct cells <br> Banner \& 2 lower images aspect ratio maintained <br> Appropriate alt text for all 4 still images <br> Video video < ...> tag used ... <br> ... width="100\%" <br> Source< $\ldots>$ tag used ... <br> ... src="j2332tiger.mp4" <br> type="video/mp4" <br> Appropriate error message | 11 |
| 4 | Row 3 Text from source file as 2 paragraphs <br> $3^{\text {rd }}$ para Web page edited by: A Cand ZZ9999999 In style h2 | 3 |
| 5 | Hyperlink Anchor around elephant image href="j2332elep.htm" | 2 |
| 6 | Hyperlink Anchor around monkey image href="mailto: tas@cambridge.org ?subject= Support a monkey | 5 |
| 7 | Browser view Address bar visible Stylesheet j2332tas.css attached | 2 |
| 8 |  | 6 |


| Question | Answer | Marks |
| :---: | :---: | :---: |
| 9 | A1:N1 Merged and centre aligned ... <br>  .. Large white sans-serif font black background <br> Merged A9:A12, A13:A16 and A17:A20 <br> Rows 7, 21 Less than 1/2 height of row 3 <br> Grey Correct 7 cells with grey background <br> Bold Rows 2,3,8,22 and column A <br> Centre Row 2 and columns A and B | 7 |
| 10 | $\begin{array}{ll} \text { C12 } & =\text { SUM(C9:C11) ... } \\ & \ldots \text { replicated to N12 } \\ \text { C16 \& } 20 & \text { Correct formulae replicated to column } \mathrm{N} \end{array}$ | 3 |
| 11 | C23 $=$ C4-C12 <br> C24 $=$ C5-C16 <br> C25 $=$ C6-C20 <br> C23:C25 Replication correct | 4 |
| 12 | Numeric data in \$ with 2dp | 1 |
| 13 | Rules Both applied to cells C23:N25 <br> Cell value >=0 ... <br> ... dark blue text ... <br> ... on light green background <br> Cell value <0... <br> ... red text on white background | 6 |
| 14 | Printout Landscape, row \& column heads fully visible | 1 |
| 15 | All Fully visible with no row \& column headings | 1 |


| Evidence documentEvidence 1 |  | TAS folder S／shot：filenames，sizes，extensions，dimensions |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| Name＾ | Date | $\checkmark$ Type | Size | Dimensions |  |
| （⿴囗 ${ }^{\text {j2332banner．jpg }}$ | 11／04／2021 10：21 | JPG File | 77 KB | $2000 \times 262$ |  |
| （9）j2332elep．htm | 11／04／2021 10：53 | Chrome HTML Do．．． | 1 KB |  |  |
| 回 j2332eleph1．jpg | 10／04／2014 18：11 | JPG File | 93 KB | $800 \times 600$ |  |
| （⿴囗口⿺辶）j2332elephant．jpg | 18／01／2020 06：11 | JPG File | 93 KB | $1000 \times 665$ |  |
| （⿴囗⿹⿺𠃑⿻口一⿴囗口一 j2332monkey．jpg | 15／01／2020 05：14 | JPG File | 80 KB | $1000 \times 665$ |  |
| －j2332tas．css | 11／04／2021 11：05 | Cascading Style S．．． | 1 KB |  |  |
| 閏 j2332tas．txt | 11／04／2021 11：01 | Text Document | 1 KB |  |  |
| （⿴囗大⿹丁口欠 j2332tiger．jpg | 10／04／2021 11：10 | JPG File | 1，189 KB | $1062 \times 1280$ |  |
| 目 j2332tiger．mp4 | 11／04／2021 10：32 | VLC media file（．m．．． | 690 KB |  |  |
| Ew tiger＿9999．png | 10／04／2021 11：22 | Adobe Fireworks ．．． | 959 KB | $500 \times 1000$ |  |


| In browser with no letters visaddress bar visi |  | 1 mark |
| :---: | :---: | :---: |
|  |  | 1 mark |
| Table | No borders/gridlines visible | 1 mark |
| Row 2 left | Video visible in correct cell | 1 mark |
| Tiger image | Placed in row 2 right column | 1 mark |
|  | Rotated through $180^{\circ}$ | 1 mark |
|  | Horizontal reflection | 1 mark |
|  | With all tiger visible after left and top crops | 1 mark |
|  | Foliage visible on right of head after right crop | 1 mark |
|  | Aspect ratio maintained | 1 mark |
| Row 3 | Text from source file as 2 paragraphs | 1 mark |
| $3{ }^{\text {rd }}$ para | Web page edited by: A Cand ZZ999 9999 | 1 mark |
| Banner \& 2 lower images |  |  |
|  | In correct cells | 1 mark |
|  | With aspect ratio maintained | 1 mark |



## Evidence 3


<h2>Help us to support animals who have been injured or have lost their natural habitat. We always care for these animals and, where possible, return them back to the wild. $</ h 2>$
$<$ h $2>$ Click on the images below to find out more about the elephants or to contact us about supporting the monkeys. $</ \mathrm{h} 2>$
<h2>Web page edited by: A Candidate, ZZ999, 9999</h2>

## </td>

</tr>
Row 4 left width:29\% 1 mark
<tr>

<td style="width:29\%;">

Hyperlink Anchor around monkey image href="mailto: ... tas@cambridge.org... ?subject=... 1 mark Support a monkey" 1 mark
<a href="mailto:tas@cambridge.org?subject=Support\%20a\%20monkey">
<img src="j2332monkey.jpg" alt="Image of monkeys"/>
</a>
</td>
<td style="width:29\%;">


## Values

Spresdsheet prepered by A Cansidate 229999999 on 06/03/2022 at 10 -35
Tawara Animal Sanctuary income and expenditure


| Header | Centre aligned Spreadsheet prepared by [space] | 1 mark |
| :---: | :---: | :---: |
|  | Candidate details [space] on [space] | 1 mark |
|  | automated date [space] at [space] | 1 mark |
|  | automated time | 1 mark |
|  | Rows 3 \& 4 deleted | 1 mark |
| B3 | Contains only the text Income | 1 mark |
| A1:N1 | Merged and centre aligned ... | 1 mark |
|  | large white sans-serif font on black background | 1 mark |
| Merged | A9:A12, A13:A16 and A17:A20 | 1 mark |
| Rows 7, 21 | $<1 / 2$ height of row 3 | 1 mark |
| Grey | Correct 7 cells with grey background | 1 mark |
| Bold | Rows 2, 3, 8, 22 and column A | 1 mark |
| Centre | Row 2 and columns A \& B horizontally and |  |
|  | 3 merged cells vertically | 1 mark |
| All | Numeric data in \$ with 2dp | 1 mark |
|  | Fully visible with no row \& column headings | 1 mark |

## Formulae

5preadsheet prepared by A Candidate 229999999 on 05/05/2622 at it:01


Sprwadhinet prepered by ACandidate 229959595 on 06/05/2022 an 1120

|  | K | 1 | M | N |
| :---: | :---: | :---: | :---: | :---: |
| 1 | diture |  |  |  |
| 2 | September | October | Nowember | December |
| 3 |  |  |  |  |
| 4 | e781.2 | 18244.75 | 12343.47 | 8514.5 |
| 5 | 1018 73 | 3604.78 | 455.33 | 312684 |
| 6 | 381225 | 472.59 | 6409.24 | 419871 |
| 8 |  |  |  |  |
| 9 | 271938 | 2096.41 | 831.69 | 42134 |
| 10 | 305232 | 2874.79 | 130657 | 1675.18 |
| 11 | . 4420.34 | 542.01 | 345.51 | 243175 |
| 12 | -51/M/K9:K31) | -54040ㄴ9:111) | -5UM\|NMP相1] |  |
| 13 | 323.59 | 698.75 | 685.38 | 534.26 |
| 14 | 183.99 | 309.2 | 123.79 | 283.9 |
| 15 | 21.86 | 35.45 | 7.57 | 34.32 |
| 16 | =5uM KK13-K15) | -50M4 431159 | -51/M/M13.915] | -51Pa(NI3:N(5) |
| 17 | 2054.51 | 3771818 | 2704.51 | 423154 |
| 18 | 105152 | 3373.79 | 139.1 | 287211 |
| 19 | 1150.41 | 1611.75 | 1403. 44 | 1308.39 |
| $\begin{array}{\|l\|} \hline 20 \\ \hline \end{array}$ |  |  | -51MMM17.919] | -51M2(N17:N19) |
| 22 |  |  |  |  |
| 23 | -54-1612 | - L4-412 | M4.M12 | -106-NL2 |
| 24 | -63-kti6 | -15-46 | - W5-M15 | - FS-Nth |
| 23 | -ks ${ }^{\text {and }}$ | -18-120 | -Ms-M23 | -16-N20 |

