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Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY

0417/32

Paper 3 Spreadsheets and Website Authoring

May/June 2023

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.

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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.

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Question	Answer	Marks
1	TAS folder tiger_9999 S/shot: filenames, sizes, extensions, dimensions Cropped to 500 × 1000 tiger_9999 in PNG format Tiger image rotated through 180° horizontal reflection with all tiger visible after left and top crops foliage visible on right after right crop aspect ratio maintained	8
2	Browser view In browser with no letters vis Table No borders/gridlines visible width=80% Row 1 colspan=3 Row 2 left width: 58% colspan="2" Row 2 right rowspan="3" width:42% Row 3 colspan="2" Row 4 left 2 width:29%	10
3	Row 2 left Row 2 right Tiger image Banner & 2 lower images in correct cells Banner & 2 lower images aspect ratio maintained Appropriate alt text for all 4 still images Video Video <> tag used width="100%" Source<> tag used src="j2332tiger.mp4" type="video/mp4" Appropriate error message	11
4	Row 3 Text from source file as 2 paragraphs 3rd para Web page edited by: A Cand ZZ999 9999 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	Header Spreadsheet prepared by in centre Candidate details then on automated date then at automated time Rows 3 & 4 deleted B3 Contains text Income	6

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

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Evidence document

Evidence 1

TAS folder S/shot: filenames, sizes, extensions, dimensions
1 mark
tiger_9999 Cropped to 500 × 1000 1 mark
tiger_9999 in PNG format 1 mark

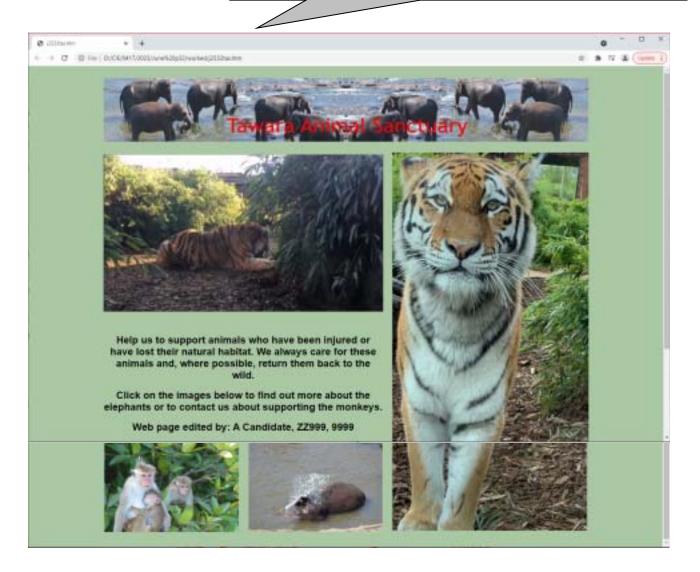
↑ ↑ his PC → L	This PC > Local Disk (D:) > CIE > 0417 > 2023 > June p32 > worked > TAS							
Name	Date	~ Type	Size	Dimensions				
j2332banner.jpg	11/04/2021 10:21	JPG File	77 KB	2000 x 262				
🧿 j2332elep.htm	11/04/2021 10:53	Chrome HTML Do	1 KB					
j2332eleph1.jpg	10/04/2014 18:11	JPG File	93 KB	800 x 600				
j2332elephant.jpg	18/01/2020 06:11	JPG File	93 KB	1000 x 665				
j2332monkey.jpg	15/01/2020 05:14	JPG File	80 KB	1000 x 665				
🟗 j2332tas.css	11/04/2021 11:05	Cascading Style S	1 KB					
j2332tas.txt	11/04/2021 11:01	Text Document	1 KB					
j2332tiger.jpg	10/04/2021 11:10	JPG File	1,189 KB	1062 x 1280				
📤 j2332tiger.mp4	11/04/2021 10:32	VLC media file (.m	690 KB					
📷 tiger_9999.png	10/04/2021 11:22	Adobe Fireworks	959 KB	500 x 1000				

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Evidence 2

In browser v	vith no letters vis	1 mark
	address bar visible	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°	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 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

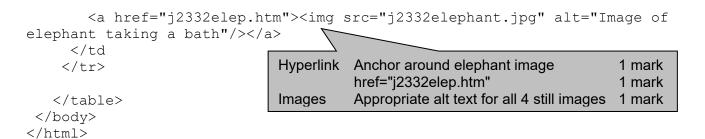


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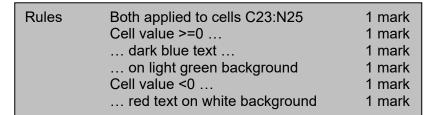
Evidence 3

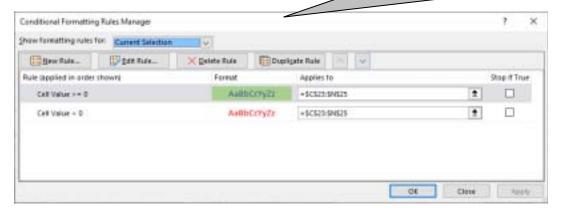
```
<!DOCTYPE html>
                            Stylesheet j2332tas.css attached
                                                                 1 mark
<html>
<head>
 <link rel="stylesheet" type="text/css" href="j2332tas.css">
</head>
                             Table
                                    width=80%
                                               1 mark
<body>
  Row 1
                                               colspan=3
                                                           1 mark
    -
      <img src="j2332banner.jpg" alt="Banner with images of elephants">
    Row 2 left
                                                    colspan=2
                                                             1 mark
   width: 58% 1 mark
    -
                                   Row 2 left
                                            video <...> tag used ...
                                                                 1 mark
                                             ... width="100%"
                                                                 1 mark
                                            source<...> tag used ...
                                                                 1 mark
                                             ... src="j2332tiger.mp4"
                                                                 1 mark
                                            type="video/mp4"
                                                                 1 mark
                                            Appropriate error message 1 mark
      <video width="100%" autoplay loop>
       <source src="j2332tiger.mp4" type="video/mp4">
        Your browser does not support this video file type.
      </video>
                                          Row 2 right rowspan=3
                                                            1 mark
                                                   width:42%
                                                            1 mark
    </t.d>
     -
      <img src="tiger 9999.png" alt="Image of tiger"/>
    Row 3
                               colspan=2
   <t.r>
    In style h2
                                   Row 3
                                                   1 mark
      <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.</h2>
      <h2>Click on the images below to find out more about the elephants
or to contact us about supporting the monkeys.</h2>
      <h2>Web page edited by: A Candidate, ZZ999, 9999</h2>
    Row 4 left
                              width:29% 1 mark
   Hyperlink Anchor around monkey image 1 mark
    href="mailto: ...
                                                                 1 mark
                                          ... tas@cambridge.org...
                                                                 1 mark
                                          ... ?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>
```

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Evidence 4





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Values

Spreadsheet prepared by A Candidate Z2999 9999 on 06/09/2022 at 10:59

Sugar S	Month	January	February	March	April	May	June	July	August	September	October	November	December
Project	Income		20000	388-25	1000		- (A) E.					1885 P.	
Elephant	10.000	\$3,480.38	\$2,061.45	\$1,893.74	\$4,586.43	\$2,159.94	\$6,447.05	\$6,541.33	\$5,889.93	\$6,281.20	\$8,244.76	\$8,249,47	\$8,514.50
Monkey		\$754.21	\$3,421.02	\$1,134.94	\$2,565.61	\$3,338.51	\$4,056.30	\$2,089.57	\$1,501.97	\$1,018.73	\$1,004.78	\$455.33	\$1,126.84
Tiger		\$2,952.38	\$1,846.30	\$1,487.65	\$4,718.89	\$3,897.85	\$8,828.12	\$8,600.99	\$1,525.76	\$8,812.25	\$472.59	\$6,400.24	\$4,000.71
Project	Expenditure	A		ALVANOR DE			5.00	0.00000011	20.00-010		D-10/200	25/20/20	
	Relocation	52,716.18	\$4,118.30	\$3,239.28	\$2,469.32	\$2,973.13	\$3,579.62	\$3,260.53	\$33.80	\$2,719.38	\$2,096.41	\$831.69	\$421.84
Floribant	Veterinary	52,190.97	\$913.83	\$1,604.30	\$3,595.88	\$1,753,40	\$934,38	\$3,886.05	\$3,200.70	\$8,052.32	\$2,874.79	\$1,306.57	\$1,675.18
Elephant.	Food	\$2,048.34	\$2,015.71	\$2,295.06	\$2,629.11	\$280.63	\$1,149.43	\$2,479.05	\$2,007.20	\$4,420.34	\$542.01	\$305.61	\$2,438.75
	Total	\$6,956.09	\$7,847.84	\$7,138.64	\$8,694.51	\$5,007.16	\$5,663.43	\$9,626.23	\$5,241.70	\$10,192,04	55,513.21	\$2,503.87	\$4,535.77
	Relocation	\$542.20	\$629.55	\$357.86	\$844,56	\$681.06	\$251.30	\$485.60	\$866.48	\$523.59	\$698.75	\$685.38	\$534.26
Mankey	Veterinary	\$381.90	\$186.58	\$240.20	\$327.27	\$351.50	\$210.90	\$284.51	\$299.61	\$188.59	\$309.20	\$123.29	\$283.50
mounch	Food	\$38.47	520.33	\$39.66	\$36.00	\$18.60	\$24.15	\$57.47	\$17.97	\$21.86	\$35.45	\$7.67	\$34.32
	Total	\$962.87	\$836.41	\$637.72	\$1,207.81	\$1,051.21	\$480.35	\$827.58	\$1,184.06	5734.04	\$1,041.40	\$816.34	\$852.00
	Relocation	\$1,329.71	\$2,813.99	\$694,47	\$8,050.36	\$2,387,33	\$340.58	\$1,893.51	\$2,375.29	52,964.81	\$3,778.31	52,764.51	54,239,04
Tigor	Veterinary	\$1,727.69	\$176.66	\$4,028.66	\$646.21	\$3,094.14	\$753.83	\$1,115.82	\$26.20	\$1,051.52	\$3,373.79	\$139.10	\$2,872.13
ide	Food	\$4,319.77	\$2,678.66	\$803.92	\$2,731.27	\$3,085.12	\$854.12	\$1,463.75	\$1,310.90	\$1,850.41	\$1,611.76	\$1,603.44	\$1,308.35
	Total	\$7,371.17	\$5,667.31	\$5,527.05	\$6,427.84	\$8,566.59	\$1,948.53	\$6,693.08	\$1,712.19	\$5,866.74	\$8,763.86	\$4,507.05	\$8,419.54
Project	Balance												
Elephant		·\$1,475.73	-\$5,786.19	-\$5,264.90	-\$4,108.00	-52,847.22	\$783.62	-\$3,064.90	\$548.29	-\$3,910.84	\$2,731.55	\$5,745.80	\$3,970.73
Monkey		-5208.66	52,584.61	5497.22	51,357.76	52,267.30	53,569.95	51,261.39	\$2,317.91	\$284.69	\$2,561.38	-\$361.01	52,174.76
Tiger		-54,418.79	-53.821.01	-54,039,40	-\$1,708.95	-52,508,74	\$4,879.59	\$1,397.31	-52,186.63	52,945.51	-58,291,27	\$1,893.19	-53,410,83

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

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Formulae

Spreadsheet prepared by A Candidate Z2999 9999 on 06/09/2022 at 11:01

ı					awara	Animal	Sanctua	ary inco	me and	exper
2		Morth	January	February	March	April	May	June	July	August
3	Project	Income		Lancaca No.		1				
4	Elephant	-	3480.38	2061,45	1893.74	4586.43	2159,94	6447.05	6541.33	5885.93
è	Monkey		754.21	3421.02	1134.94	2565.61	3338.51	4056.3	2089.17	3501,57
6	Tiger		2952.38	1946.3	1487.65	4718.99	5897.85	6829.12	8690.99	1525.76
8	Project	Expenditure								-
9		Relocation	2716.18	4118.3	3239.28	2469.32	2973.13	3579.62	3260.53	33.8
0		Veterinary	2190.97	915.83	1604.3	3595.88	1751.4	934.38	3856.03	1200.7
1	Elephant	Food	2048.94	2815.71	2295.06	2629.31	280.63	1149.43	2479.65	2007.2
2		Total	=SUM(C9:C11)	=SUM(D9:D11)	=SUM(E9:E11)	=SUM(F9:F11)	=SUM(G9:G11)	=SUM(H9:H11)	=SUM(19:111)	=SUM(#9:111)
3		Relocation	542.2	629.55	357.86	844,56	80.188	251.5	485.6	866.48
ď.	Mankey	Veterinary	381.8	186.53	240.2	327.27	351.5	210.9	294.51	299.61
15	anuticely	Food	36.67	20.33	39.46	36	18.63	24.15	57.67	17.97
6		Total	-SUM(C13:C15)	~SUM(013:015)	~SUM(E18:E15)	~SUM(F13:F15)	=SUM(G13:G15)	~SUM(H13:H15)	~5UM(H3:H5)	~SUM(#.3:J15
7		Belocation	1111-71	2811.99	034.47	3050.36	2387.33	340.58	1893.51	2375.29
it.	Tieur	Veterinary	1727.69	174,66	4028.66	646.21	1094.14	753.83	3335.82	26.2
9	rigar	Food	4319.77	2678-66	803.92	2731.27	3085.12	854.12	1469.75	1310.9
D)		Total	-SUM(C17:C19)	~5UM(017:019)	-SUM[E17:E19]	-SUM(F17:F19)	-SUM(G17:G19)	-5UM(H17:H19)	~5UM(II7:II9)	-5UM(IL7:J19
22	Project	Referce		Terpupa T T	O. e.e.		Contract of		Linear I	1000
3	Elephant	and the state of	-C4-C12:	-04-012	=64-E13	-F4-F12	-64-612	+H4-H11	-94-112	-M-HIZ
ii.	Mankey		HCS-C18	=D5-D18	+E5-E16	HF3-F36	+63-G18	=115-143.6	18-06	125-126
3	Tigur		+C8-C20	=D6-020	-05-020	+F6-F2D	+G6-G20	+88-800	+8-120	=:E-120

C12	=SUM(C9:C11)	1 mark
	Replicated to N12	1 mark
C16 & 20	Correct formulae replicated to column N	1 mark
C23	=C4-C12	1 mark
C24	=C5-C16	1 mark
C25	=C6-C20	1 mark
C23:C25	Replication correct to column N	1 mark
Printout	Landscape row & col heads fully visible	1 mark

Spreadsheet prepared by A Candidate 22959 5595 on 06/05/2022 at 11:02

	£.	1	M	N.
t	diture			
2	September	October	November	December
3		100000	100 Per 100 Pe	
4	6281.2	8264.76	8249.47	8514.5
5	1018.73	3604,78	455.33	3126.84
6	8812.25	472.59	6400-24	4808.71
8	1515177	F725-15-	-0245	Source and
9	2719.38	2096.41	831.69	421.84
10	3052.32	2874.79	1306.57	1675.18
11	4420.34	542.01	365.61	2438.75
12	~5UM(K9:K11)	=SUMM(L9:L11)	=SUM(M9:M11)	~SUM(N9:N11)
13	323.59	698.75	685.38	534.26
14	188.59	309.2	123.29	283.5
15	21.86	35.45	7.67	34.32
16	=SUM(K13:K15)	=SUM(L13:L15)	=SUM(M13:M15)	=\$UM(N13:N15)
17	2964.61	3778.31	2764.51	4239.04
18	1051.52	3373.79	139.1	2872.11
19	1850.41	1611.76	1403.44	1308.39
20	=5UM(K17:K19)	=5LMA(L17±19)	-SUM(M17:M19)	~SUM(N17:N19)
22				
23	+64-612	-04-012	+M4-M12	+194-NIZ
24	-K3-K16	-15-116	=M:5-M:16	~165-N16
25	+K65-K311	-18-120	=M6-M30	HN6-N20

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