Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY

Paper 3 Spreadsheets and Website Authoring MARK SCHEME Maximum Mark: 70 0417/32 May/June 2023

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 folderS/shot: filenames, sizes, extensions, dimensionstiger_9999Cropped to 500 × 1000 tiger_9999 in PNG formatTiger imagerotated 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 viewIn browser with no letters visTableNo borders/gridlines visible width=80%Row 1colspan=3 colspan="2"Row 2 leftwidth: 58% colspan="2"Row 2 rightrowspan="3" width:42%Row 3colspan="2" colspan="2"Row 4 left 2width:29%	10
3	Row 2 left Video visible in correct cell 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 3Text from source file as 2 paragraphs3rd paraWeb page edited by: A Cand ZZ999 9999In 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:N1Merged and centre aligned Large white sans-serif font black backgroundMergedA9:A12, A13:A16 and A17:A20Rows 7, 21Less than 1/2 height of row 3GreyCorrect 7 cells with grey backgroundBoldRows 2,3,8,22 and column ACentreRow 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

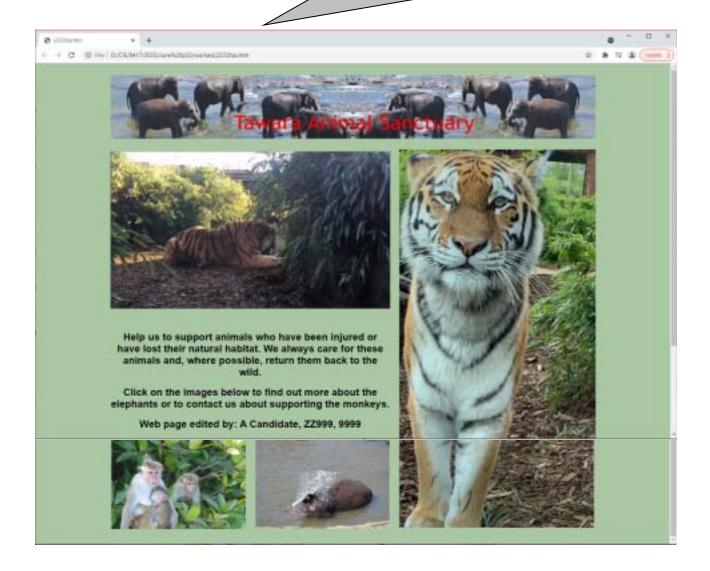
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Evidence document		TAS folder S/shot: filenames, sizes, extensions, dimensions 1 r					
Evidence 1		tiger_9999	1 mark 1 mark	-			
1 🛧 📙 > This PC > Lo	ocal Disk (D:) > C	IE > 0417 >	2023 > June p32	> worked > T/	AS		
Name	Date	× ۲	ype	Size	Dimensions		
🥫 j2332banner.jpg	11/04/2021 10:21	IL	PG File	77 KB	2000 x 262		
🧿 j2332elep.htm	11/04/2021 10:53	C	Chrome HTML Do	1 KB			
j2332eleph1.jpg	10/04/2014 18:11	I	PG File	93 KB	800 x 600		
🥫 j2332elephant.jpg	18/01/2020 06:11	I	PG File	93 KB	1000 x 665		
j2332monkey.jpg	15/01/2020 05:14	l JI	PG File	80 KB	1000 x 665		
👕 j2332tas.css	11/04/2021 11:05	C	ascading Style S	1 KB			
j2332tas.txt	11/04/2021 11:01	Т	ext Document	1 KB			
j2332tiger.jpg	10/04/2021 11:10	IL (PG File	1,189 KB	1062 x 1280		
📥 j2332tiger.mp4	11/04/2021 10:32	V	LC media file (.m	690 KB			
📷 tiger_9999.png	10/04/2021 11:22	A	dobe Fireworks	959 KB	500 x 1000		

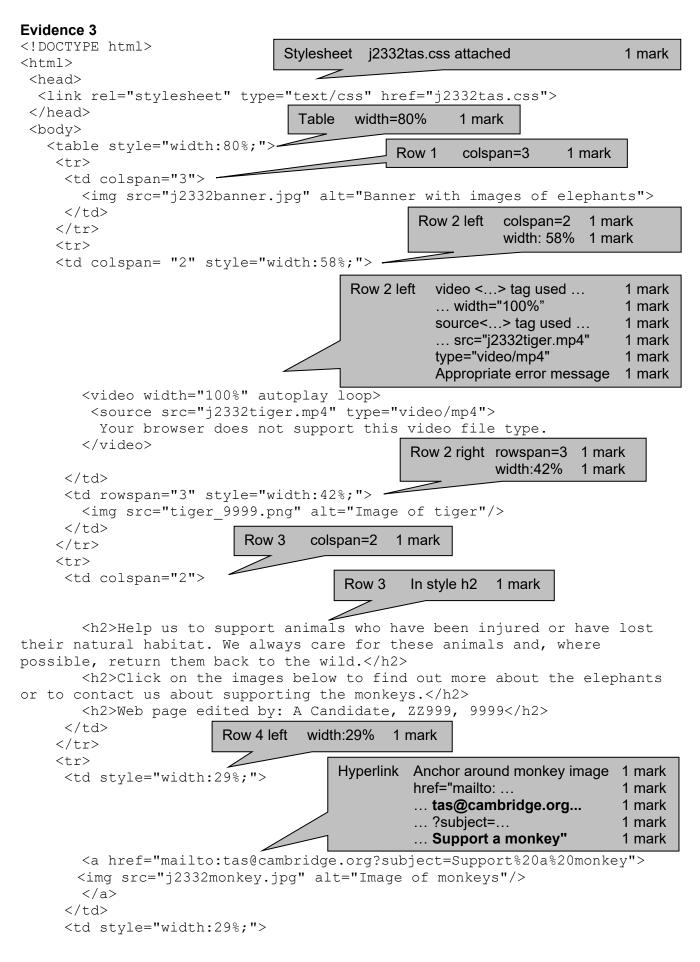
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Evidence 2

In browser w	/ith 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 I	ower images	
	In correct cells	1 mark
	With aspect ratio maintained	1 mark



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			Hyperlink	 Anchor around elephan href="j2332elep.htm" 	nt image	1 mark 1 mark
<th>e></th> <th></th> <th>Images</th> <th>Appropriate alt text for</th> <th>all 4 still images</th> <th>1 mark</th>	e>		Images	Appropriate alt text for	all 4 still images	1 mark
Evidence 4			_		000 1105	
			Rules	Both applied to cells Cell value >=0 …	s C23:N25	1 mark 1 mark
				dark blue text		1 mark
				on light green ba	ackaround	1 mark
				Cell value <0	5	1 mark
				red text on white	background	1 mark
Conditional Formattin	g Tules Manager				? ×	
Show formatting rules	for: Current Selection	1 m				
Einw Rule	Bat Rida	🔀 Delete Rule	🔲 Dupilgate Rale			
Rule applied in orde	rshowni	Fermat	Applies		Stop If True	
Cell Value >+ 0		Aatto	-scs25	head .		
Cell Value = 0		AsBbC	*\$C\$2	\$V\$25		

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Values

Spreadsheet prepared by A Candidate 22999 9999 on 06/09/2022 at 10:59

Sec. 18	Month	January	February	March	April	May	June	July	August	September	October	November	December
Project	Income	10.0000	2020.04	1982-1991	1.11.11			- 20 C - 20				1835-813	5.000
Elephant	1.0	\$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	\$1,334.94	\$2,565.61	\$3,338.51	\$4,056.30	\$2,089.17	\$3,501.97	\$1,018.73	\$3,604.78	\$455.33	\$1,126.84
Tiger		\$2,952.38	\$1,846.30	\$2,487.65	\$4,718.89	\$3,897.85	\$8,828.12	\$8,600.99	\$1,525.76	\$8,812.25	\$472.59	\$6,400.24	\$4,000.73
Project	Expenditure	ALC: ALC: N		A. Vinnacht	and the second		Second	0-0-0-0-0-0	12.1.000	10.000		1.21.20.2.11	
1.1.1	Relocation	\$2,716.18	\$4,118.30	\$3,239.28	\$2,469.32	\$2,978.13	\$3,579.62	\$3,260.53	\$33.80	\$2,719.38	\$2,096.41	\$831.69	\$421.84
Elephant	Veterinary	\$2,190.97	\$913.83	\$1,604.30	\$3.595.88	\$1,753.40	\$934,38	\$3,886.05	\$3,200.70	\$3.052.32	\$2,874.79	\$1,306.57	\$1,675.18
eephant	Food	\$2,048.94	\$2,815.71	\$2,295.06	\$2,629.11	\$280.63	\$1,149.43	\$2,479.65	\$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	\$5,513.21	\$2,503.87	\$4,535.77
	Relocation	\$542.20	\$629.55	\$357.86	\$844,56	\$681.08	\$251.30	\$485.60	\$866.48	\$523.59	\$698.75	\$685.38	5.38 \$534.26
Monkey	Veterinary	\$381.90	\$186.53	\$240.20	\$327.27	\$351.50	\$210.90	\$284.51	\$299.61	\$188.59	\$309.20	\$123.29	\$283.50
monacy	Food	\$38.87	\$20.33	\$31.66	\$36.00	\$18.63	\$24.15	\$57.47	\$17.97	\$21.86	\$35.45	\$7.67	\$34.32
	Total	\$962.87	\$8.36.41	\$637.72	\$1,207.83	\$1,051.21	\$480.35	\$827.58	\$1,184.06	\$734.04	\$1,043.40	\$816.34	\$852.08
	Relocation	\$1,323.71	\$2,813.99	\$694,47	\$3,050.36	\$2,387.33	\$340.58	\$1,893.51	\$2,375.29	52,964.81	\$3,778.31	52,764.51	\$4,239.04
Tiger	Veterinary	\$1,727.69	\$176.66	\$4,028.66	\$646.21	\$3,094.14	\$753.83	\$1,135.82	\$26.20	\$1,051.52	\$3,373.79	\$139.10	\$2,872.13
idfor	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	\$3,712.19	\$5,865.74	\$8,763.86	\$4,507.05	\$8,419.54
Project	Balance	-											
Elephant		-\$1,A75.71	-\$5,786.19	-\$5,244.90	-\$4,108.00	-52,847.22	\$783.62	-\$7,084.90	\$048.21	-\$3,910.84	\$2,731.55	\$5,745.80	\$3,878.71
Monkey		-\$208.66	\$2,584.01	\$497.22	51,357.78	\$2,287.30	\$3,565.55	51,261.39	\$2,317.91	\$284.69	\$2,561.38	-\$361.01	52,174.76
Tiger		-54,418.79	-\$3.821.01	-54,039.40	-\$1,708.95	-52,668,74	\$4,879.59	\$1,997.31	-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 22999 9999 on 06/09/2022 at 11:01

	A	- B	C	D	ε	1. F.	6	H	S 15 5	1
				٦	Tawara	Animal	Sanctua	ary inco	me and	exper
1		Month	January	February	March	April	May	Arm	July	August
3	Project	Income		And the second second		A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR A CONTRAC			August 1971 Aug	
4	Elephant		3480.38	2061,45	1893.74	4586.43	2155,94	6447.05	6541.33	5085.93
ŝ.	Monkey		754,21	3421.02	1134.94	2565.61	3338.51	4056.3	2089.17	3501.57
6	Tiger		2952.38	1945.3	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
10	Elephant	Veterinary	2190.97	913.83	1604.3	3595.88	1751.4	934.38	3855.03	3200.7
11		Food	2048.94	2813.71	2295.06	2629-31	280.63	1149.43	2479.65	2007.2
12		Total	=SUM(C9:C11)	=SUM(09:011)	=SUM[E9:E11]	=SUM(F9:F11)	=SUM(G9:G11)	=\$UM(H9:H11)	=5UM(I9:111)	=SUM(19:111)
13		Relocation	542.2	629.55	357.86	844,56	681.08	251.5	485.6	800.48
14	Mankey	Veterinary	381.8	166.53	240.2	327.27	351.5	230.9	284.51	299.61
15	annovey	Food	38.87	20.33	29.66	36	18.63	24.15	57.67	17.97
16		Total	-SUM(C13:C15)	-SUM(013:015)	-SUM(E18:E15)	~SUM(F13:F15)	-SUM(613:615)	-SUM(H13:H15)	~5UM(I13:I15)	+SUM(#3:015)
17		Relocation	1323.71	2811.99	034.47	3050.38	2387.33	340.58	1893.51	2375.29
111		Veterinary	1727.69	174.66	4028.66	646.21	3094.14	753.83	3335.E2	26.2
19	Tigar	Food	4319.77	2678.66	803.92	2733.27	3085.12	854.12	1463.75	1310.9
20		Total	-SUM(C17:C19)	~5UM(017:019)	-5UM(E17:E19)	-SUM(F17:F19)	-SUM[617:619]	~5UM(H17:H19)	~5UM(I17:I19)	-5UM(#7:J19)
22	Project	Referen		1000000	12.49.0		1		Sec. 1	10 miles
23	Elephant		-04-012	-04-012	=64-E13	-F4-F12	-64-612	+H4-H12	-#4-132	-14-112
24	Monkey		+C3-C18	=05-018	+65-616	HF3-F36	+68-618	=115-143.6	=8-436	125-12.6
25	Tigar		+C6-C20	=D6-020	-15-620	+F8-F20	+G8-G20	-118-1120	+8-130	- 85-120

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	76
i	diture			
2	September	October	November	December
3	1. STATE 1. MA	1.1.2.2.2.2.	1.10.2252.079	and shirt of the
4	6281.2	1244.76	8249.47	8514.5
5	1018.73	3604,78	455.33	3126.84
6	8812.25	472.59	6400-24	4808.71
8		110-10-1		Contract of the
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	~SUM(K9:K11)	=5UM(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:R15)	=SUM(L13:L15)	=SUM(M13:M15)	=\$LBM(N13:N15)
17	2964.81	3778.31	2764.51	4239.04
18	1051.52	3373.79	139.1	2872.11
19	1850.41	1611.78	1003.04	1308.39
20	-5UM(617:819)	=5UMA(L17:1.19)	=SUM(M173M19)	~SUM(N17:N19)
22				
23	+64-612	-14-112	=M4-M12	+14-1112
24	-43-416	=15-116	-M15-M16	~16-N16
25	+805-8010	-18-120	-M6-M30	*N6-N20