# Cambridge IGCSE™

# INFORMATION AND COMMUNICATION TECHNOLOGY

Paper 3 Spreadsheets and Website Authoring MARK SCHEME Maximum Mark: 70 0417/31 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.

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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.

Question	Answer	Marks
1	Footer: File name with no path on left Candidate details on right	2
2	Rows 1 & 13: Correct cells merged and centred Grey background Bold and italic, 16 point	10
	A6:C11: Merged cells Right aligned Wrapped as shown	
	Row 14: Centre aligned horizontally Centre aligned vertically Wrapping as shown	
	Cell borders as shown	
3	Landscape, fully visible with row & column headings	1
4	B3 AVERAGE( ) B15:B45 B4 AVERAGE( B46:B73) C3 AVERAGE( E15:E45) C4 AVERAGE( E46:E73) D3 AVERAGE( H15:H45) D4 AVERAGE( H46:H73) All 6 =ROUND( ,1) for all 6 formulae	8
5	D6 =COUNTIF(C\$15:C\$73,">0") D7 =COUNTIF(F\$15:F\$73,">0") D8 =COUNTIF(I\$15:I\$73,">0")	3
6	D9 =COUNTIF(C15:C73,) ,">7.5"	2
7	D10=ROUNDUP(,0) AVERAGE(D15:D45)	2
8	=COUNTIF(D15:D45,"<5")	1
9	Printout Landscape row & column heads fully visible	1
10	Values 2 Cells A1:D11 only Portrait orientation & single page fully vis No row & column headings	3

Question	Answer	Marks
11	Chart Appropriate chart type Appropriate title Month as category axis with axis title Sunshine plotted with correct values on primary value axis with axis title Rainfall plotted with correct calculated values on secondary value axis with axis title maximum scale set to 100 Appropriate legend, chart easily read, no truncation/overlapping	9
12	CSS: All 4 correct styles selected Using single selector Font-family: Calibri , "Helvetica Neue" in speech marks , sans-serif; Correct CSS syntax with selector { }	6
13	Head section: <head> <title>Weather Data</title> <meta/>  charset=  "ISO-8859-1" <meta name=""/>  "author"  content="TawaraWeb A Candidate" <meta name=""/>  "description"  content="Weather data for the Tawara region"&gt; <meta name=""/>  content="width=device-width , initial-scale=2.0" <meta name="keywords"/>  content=" "  Tawara  comma separator  weather <base/>  Target="_blank" </head>	22

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Evic	dence docum	ent		Rows 1 & 13	Correct cells Grey backgr	-	d centred		mark mark
Lay	out			A6:C11	Bold and ital Merged cells	lic, 16 point		1	mark mark
					Right aligne	d		1	mark
				Row 11	Only row 11	wrapped as	s shown	1	mark
				Row 14	Centre align	ed horizonta	ally	1	mark
					Centre align	ed vertically		1	mark
					Wrapping as	s shown		1	mark
				All	Cell borders	as shown		1	mark
				Print	Landscape,	-	with row &		
					column head	dings		1	mark
	A	. B	. C	D E	F G	ні	1	к	
1	Average hours	s of sunsi	hine per m	onth				1	

1	Average hours	of sunsh	hine per	month						1
2		Amarta	Bingchen	Chelsmy						
3	January	-0.022.035		0.0000000000000000000000000000000000000						
4	February									
5										
6	Number of c	days with rai	n in Amarta							
7	Number of da	ys with rain i	in Bingchen							
8	Number of da	rys with rain	in Chelsmy							
9	Number of days wi	th heavy rain	n in Amarta							
10	Average wind spe	ed in Amarta	in January							
	Number of days with a w	ind speed of	less than 5							
tt.	kno	ots in Amarta	in January							
12										
13	Town	1	Amarta	1	1	Bingche	en 🛛	-	Chelsm	y
14	Date	Sunshine (hours)	Rainfall (mm)	Wind speed (knots)	Surshine (hours)	Rainfall (mm)	Wind speed (knots)	Sunshine (hours)	Rainfall (mm)	Wind speed (knots)
15	1st January 2023	4.224	6.86	13		5.36	19		0.5	1
16	2nd January 2023	0.479	0	20	3.212	0	23	4,456	0	10
17	3rd January 2023	4,748	0	20	3.964	9.88	18	4,019	2.97	
18	4th January 2023	3.013	0	4	3.256	1.6	16	1.827	3.52	- 14
19	5th January 2023	4.848	5,69	21	2.639	0	23	0.716	0	9
20	6th January 2023	4.784	0	24	1.236	0	16	2.611	0	े स
21	7th January 2023	1.701	8,04	23	1.733	0	16	2.723	5.8	(
22	8th January 2023	0.773	6.42	13	2.047	3.88	29	4,144	4,38	13
23	9th January 2023	4.524	0	11	4.225	0	28	2,428	0	1
24	10th January 2023	2.801	6.59	8	3.380	0	2	4,625	0	3
25	11th January 2023	0.853	3.89	3	1.904	4.29	6	1.539	0	1
26	12th January 2023	2.937	7,49	0	0.072	0	26	4.239	9.66	10
_		0.209	0.08	20	3.013	2.09	. 9	2,472	0	1:
_	13th January 2023	0.203	010-01							
27 28	13th January 2023 14th January 2023		0	5	1.885	0	20	1.184	5.44	10

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1.1	A	8	C	0	1	F	6	H	1.	1
30	16th January 2023	1.744	2.78	23	3.019	3.61	2	2.679	0	13
31	17th January 2023	2.546	0	18	3.525	5.29	6	3.58	3.75	6
32	18th January 2023	3.717	0	16	2.755	7.06	27	1.707	5.07	D
33	19th January 2023	0.309	8.08	4	4.112	0	20	2.596	9.26	15
34	20th January 2023	1.768	0	- 5	4.289	0	25	1.95	2.82	7
35	21st January 2023	0.952	5.34	11	0.23	0	20	1.745	0	9
36	22nd January 2023	1.576	3.24	28	0.743	0	8	4.535	0.05	6
37	23rd January 2023	3.165	1.8	22	4.303	2.04	3	2.68	0	ń
30	24th January 2023	0.77	0.68	30	1.614	5.52	6	0.747	0.01	10
30	25th January 2023	3.283	0	7	0.073	0.23	13	4.82	D	15
40	26th January 2023	3.061	0	0	2.372	0.05	5	3.336	4.2	7
41	27th January 2023	2.667	2.81	25	4.897	0	13	4.245	1.93	- 4
42	28th January 2023	3.649	1.17	17	2.173	6.9	5	3.736	7.16	18
43	29th January 2023	2.327	3.61	9	2.314	0	25	2.279	4.02	7
44	30th January 2023	2.976	0	10	1.414	0	5	2.626	8.94	1
45	31st January 2023	2.665	6,04	23	1.411	0	12	3.743	D	18
46	1st February 2023	3.648	7.12	27	1.373	0	21	2.281	8.77	19
47	2nd February 2023	3.327	5.53	18	3.598	0	16	2.389	3.55	9
-48	3rd February 2023	0.775	2.28	30	1.433	2.89	13	4.455	0	16
-49	4th February 2023	0.86	0	29	0.383	0	29	2.737	8.21	6
50	5th February 2023	2.218	8.53	2	0.429	0	14	1.202	7.82	15
31	6th February 2023	4.163	0	26	1.787	3.5	16	0.418	8.5	D
\$2	7th February 2023	3.909	0	17	3.121	0	- 4	4.56	8.65	19
53	8th February 2023	1.531	8.7	21	3.137	0	4	1.285	0	18
54	9th February 2023	3.785	9,43	13	2.867	6.43	15	4.999	3.82	19
55	10th February 2023	4.082	7.84	24	4.894	0		1.793	9.76	9
56.	11th February 2023	4.927	0	16	2.224	0	1	3.809	1.03	2
37	12th February 2023	0.061	0.01	15	4.202	0	20	1.614	0	2
58	13th February 2023	3.076	4.24	2	4.541	0	29	4.03	0	19
59	14th February 2023	1.524	8.75	7	2.067	6.21	16	0.719	0	16
60	15th February 2023	4.31	0	10	0.737	0	10	1.712	6.74	15
61	16th February 2023	3.497	2.02	1	2.118	σ	26	0.193	4.56	15

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	Α	8	c	p	1		G	H	1	1
62	17th February 2023	2.013	0	18	0.105	0	9	2.779	0	16
63	18th February 2023	4.467	0	7	3.829	9.65	11	2.506	0	2
64	19th February 2023	1.513	0	21	3.568	0	28	1.334	0.52	5
65	20th February 2023	4.33	7.56	2	3.692	6.23	30	0.252	0	13
66	21st February 2023	1.937	0	28	4.498	0	5	1.362	0	5
67	22nd February 2023	0.71	9.91	3	1.117	2.86	0	4.189	3.91	1
68	23rd February 2023	0.679	3.1	4	1.858	0	10	0.069	0	14
69	24th February 2023	3.204	0	18	4.46	8.67	15	2.676	2.74	6
70	25th February 2023	2.076	7.67	19	1.495	0		1,379	0	5
71	26th February 2023	1.387	6.86	23	3.633	0	29	3.07	4.39	- 4
72	27th February 2023	4.278	1.79	19	2.058	8.34	1	1.584	6.86	16
73	28th February 2023	0.474	0	16	0.117	0	27	4.948	4.51	20

Footer	File name with no path on left Candidate details on right	1 mark 1 mark

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Formulae	B3	AVERAGE( ) B15:B45	1 mark 1 mark
	B4	AVERAGE( B46:B73)	1 mark
	C3	AVERAGE(E15:E45)	1 mark
	C4	AVERAGE(E46:E73)	1 mark
	D3	AVERAGE(H15:H45)	1 mark
	D4	AVERAGE( H46:H73)	1 mark
	All 6	=ROUND( ,1) for all 6 formulae	1 mark

Т	A	8		c		D	E
		Av	eraae ho	urs of sunshine per mo	onth		
2		Amart		Bingchen		Chelsmy	-
3	January	=ROUND(AVERAGE)		=ROUND(AVERAGE(E15:E45).)	1) =ROUND(AVE	RAGE0H15:H45],1)	
1	February	and the second		=ROUND(AVERAGE(E46:E73).)	and the second s	RAGE(H46:H73),1)	
5							
6				Number of days with rain in Ar	marta =COUNTIF(CS	15:C\$73,">0"]	
7				Number of days with rain in Bin	chen =COUNTIF(FS)	15:F\$73, 50")	
8				Number of days with rain in Ch	eturny =COUNTIF(151	5:(\$71,">0")	
9			Num	ber of days with heavy rain in A	marta =COUNTIF(C1)	5:C73,">7.5")	
0			Ave	rage wind speed in Amarta in Ja	nuary =ROUNDUP(A	VERAGE(D15:D45),0)	
1	Nu	mber of days with a v	rind speed of	less than 5 knots in Amarta in Ja	ruary =COUNTIFIC	5:D45,"<5"}	
2				1		L	
2	Town			Amarta			
U.	Date	Sunshine (	iours)	Rainfall (mm)	w	eed (knots)	Sunshine (hours)
4		11-11-12-12-12-12-12-12-12-12-12-12-12-1	1. 522	- 13 - 13			10 million 10 million 10
5	1st January 2023	4.224		6.86	13		3.246
6	2nd January 2023			0	20		3.212
7	3rd January 2023	the state of the s		0	20		3.964
8	4th January 2023			0	4		3.256
9	5th January 2023			5.69	21		2.639
0	6th January 2023			0	24		1.236
1	7th January 2023			8.04	23		1.735
2	8th January 2023			6.42	13		2.047
3	9th January 2023			0	11	\	4.225
14	10th January 2023	Contraction of the Contraction o		6.59	8		3.386
5	11th January 2023			3.89	3	$\vdash$	1.904
16	12th January 2023	and and a second se		7.49	0	$\vdash$	0.072
27	13th January 2023	to be a first to be a second to be a		0.08	20		3.013
-10	14th January 2023	3.102		10	p		1.885
/eat	her_22999_9999.xlsx						A Candidate_Z2999
						J	
			D6	=COUNTI	F(C15:C73,'	>0")	1 mark
			D7		F(F15:F73,"		1 mark
			D8		F(I15:I73,">		1 mark
			D9	=COUNTI	F(C15:C73,	)	1 mark
				">7.5"			1 mark
			D10	=ROUNDI			
							1 mark
					E(D15:D45)		1 mark
			D11	=COUNTI	F(D15:D45,'	<5")	1 mark

Formulae p/o Landscape row & col heads fully visible 1 mark

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	A	8	c	D	E
29	15th January 2023	2.569	0	27	2.34
30	16th January 2023	1.744	2.76	23	3.019
31	17th January 2023	2.546	0	18	3.525
32	18th January 2023	3.717	0	16	2.735
33	19th January 2023	0.309	8.08	4	4.112
34	20th January 2023	1.768	0	5	4.289
35	21st January 2023	0.952	5.34	11	0.23
36	22nd January 2023	1.576	3.24	28	0.743
37	23rd January 2023	3.165	1.8	22	4.303
38	24th January 2023	0.77	0.68	30	3.614
39	25th January 2023	3.283	0	7	0.073
40	26th January 2023	3.061	0	0	2.372
41	27th January 2023	2.647	2.81	25	4,897
42	28th January 2023	3.649	1.17	17	2.173
43	29th January 2023	2.327	3.61	9	2.314
44	30th January 2023	2.976	0	10	1,414
45	31st January 2023	2.665	6.04	23	1.411
46	1st February 2023	3.648	7.12	27	1.373
47	2nd February 2023	3.327	5.53	18	3.598
48	3rd February 2023	0.779	2.28	30	1,433
49	4th February 2023	0.86	0	29	0.383
50	5th February 2023	2.218	8.53	2	0.429
51	6th February 2023	4.163	0	26	1.787
52	7th February 2023	3.909	0	17	3.121
53	8th February 2023	1.531	8.7	21	3.137
54	9th February 2023	3.785	9.43	13	2.867
55	10th February 2023	4.082	7.84	24	4.894
56	11th February 2023	4.927	0	16	2.224
57	12th February 2023	0.061	0.01	15	4.202
58	13th February 2023	3.076	4.24	2	4.541
59	14th February 2023	1.524	8.75	7	2.067
60	15th February 2023	4.31	0	10	0.737

#### Weather\_Z2999\_9999.xbx

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. 1	Second All result		c	D	
61	16th February 2023	3.497	2.02	1	2.118
62	17th February 2023	2.013	0	18	0.105
63	18th February 2023	4.467	0	7	3.829
64	19th February 2023	1.513	0	21	3.548
65	20th February 2023	4.33	7.56	2	3,692
66	21st February 2023	3.937	0	28	4.436
67	22nd February 2023	0.73	9.91	3	1.117
68	23rd February 2023	0.679	3.1	4	1.858
69	24th February 2023	3.204	0	18	4.46
70	25th February 2023	2.076	7.67	19	3,495
71	26th February 2023	1.387	6.86	23	3.633
72	27th February 2023	4.278	1.79	19	2.058
73	28th February 2023	0.474	0	16	0.117

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5				1.				
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9								
10		2						
11								
12								
13	Bingchen	52 X	Chelsmy					
	Rainfall (mm)	Wind speed (knots)	Sunshine (hours)	Rainfall (mm)	Wind speed (knots)			
14	Rainfall (mm)	Wind speed (knots)	Sunshine (hours)	Rainfall (mm)	Wind speed (knots)			
_	5.36							
15 16	5.36	19	2.109	0.5	10			
15 16 17	5.36	19 23	2.109	0.5	10			
15 16 17 18	5.36 0 9.88	19 23 18	2.109 4.456 4.019	0.5 0 2.97	10 10 0			
15 16 17 18 19	5.36 0 9.88 1.6 0	19 23 18 16	2.109 4.456 4.019 1.827	0.5 0 2.97 3.52	10 10 0 18 4			
15 16 17 18 19 20	5.36 0 9.88 1.6 0 0	19 23 18 16 23	2.109 4.456 4.019 1.827 7.716	0.5 0 2.97 3.52 0	10 10 0 18			
15 16 17 18 19 20 21	5.36 0 9.88 1.6 0 0	19 23 18 16 23 16	2.109 4.456 4.019 1.827 7.716 5.611	0.5 0 2.97 3.52 0	10 10 0 18 4 8			
15 16 17 18 19 20 21 22 23	5.36 0 9.88 1.6 0 0 0 3.88 0	19 23 18 16 23 16 16 16	2.109 4.456 4.019 1.827 7.716 5.611 2.723	0.5 0 2.97 3.52 0 5.8	10 10 0 18 4 8 0 13 11			
15 16 17 18 19 20 21 22 23	5.36 0 9.88 1.6 0 0 0 3.88 0	19 23 18 16 23 16 16 23 29	2.109 4.456 4.019 1.827 7.716 5.611 2.723 4.144	0.5 0 2.97 3.52 0 5.8 4.38	10 10 0 18 4 8 0 13			
15 16 17 18 19 20 21 22 23 24	5.36 0 9.88 1.6 0 0 0 3.88 0	19 23 18 16 23 16 16 29 28	2.109 4.456 4.019 1.827 7.716 5.611 2.723 4.144 2.428	0.5 0 2.97 3.52 0 0 5.8 4.38 0	10 10 0 18 4 8 0 13 11			
15 16 17 18 19 20 21 22 23 24 25 26	5.36 0 9.88 1.6 0 0 0 3.88 0 0 0 4.29 0	19 23 18 16 21 16 29 28 2 2 6 20	2.109 4.456 4.019 1.827 7.716 5.611 2.723 4.144 2.428 4.625	0.5 0 2.97 3.52 0 0 5.8 4.38 0 0	10 10 0 18 4 8 0 13 11 2			
15 16 17 18 19 20 21 22 23 24 25 26	5.36 0 9.88 1.6 0 0 3.88 0 0 4.29	19 23 18 16 23 16 16 29 29 28 28 2 6	2.109 4.456 4.019 1.827 7.716 5.611 2.723 4.144 2.428 4.625 1.539	0.5 0 2.97 3.52 0 0 5.8 4.38 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 10 0 18 4 8 0 13 11 2 12			

#### Weather\_Z2999\_9999.xlsx

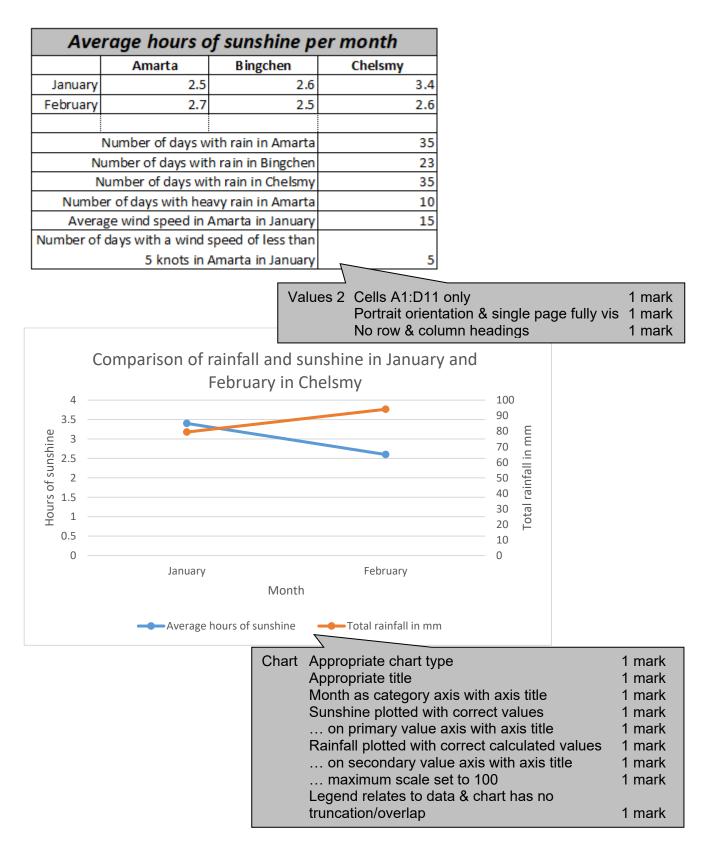
	F	6	н		1
29	0	12	6.265	0	8
30	3.61	2	6.679	0	13
31	5.29	6	3.58	3.73	6
32	7.08	27	1.707	5.07	D
33	0	20	2.596	9.26	15
34	0	25	1.95	2.82	7
35	0	20	1.745	0	9
36	0	8	4,535	0.05	6
37	2.04	3	2.68	0	6
38	5.52	6	0.747	0.01	10
39	0.23	13	4.82	0	15
40	0.05	5	3.336	4.2	7
41	0	13	4.245	1.93	4
42	6,9	5	3.736	7.16	18
43	0	25	2.279	4.02	7
44	0	5	2.626	8.94	3
45	0	12	3.743	0	18
46	0	21	2.281	8.77	19
47	0	16	2.389	3.55	9
48	2.89	13	4.455	0	16
49	0	29	2.737	8.21	6
50	0	14	1.202	7.82	15
51	3.5	16	0.418	8.5	0
52	0	4	4.56	8.65	19
53	0	4	1.285	0	18
54	6.43	15	4.999	3.32	19
55	0	8	1.793	9.76	9
56		1	3.809	1.03	2
57	0	20	1.634	0	2
58	0	29	4.03	0	19
59	6.21	16	0.719	0	16
60	0	10	1.712	6.74	15

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	F	G	H	1	1
61	0	26	0.193	4.55	15
62	0	3	2.779	0	16
	9.65	11	2.506	0	2
64	0	26	1.334	0.82	5
65	6.23	10	0.252	0	13
66	0	5	1.362	0	5
67	2.86	0	4,189	3.91	1
68	0	10	6.069	0	14
	8.67	15	2,676	2.74	6
70	0	9	3.379	0	5
71	0	29	3.07	4.39	4
72	8.34	1	1.584	6.86	16
73	0	27	4.948	4.51	20

Weather ZZ999 9999.xbx



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1 mark

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1 mark

```
h1,h2,h3,p {font-family:Calibri,"Helvetica Neue", sans-serif}
                                    CSS All 4 correct styles selected
                                                                              1 mark
                                          font-family: Calibri
                                                                              1 mark
                                           , "Helvetica Neue" in speech marks
                                                                              1 mark
                                           , sans-serif;
                                                                              1 mark
                                           Correct CSS syntax with selector { }
                                                                              1 mark
<head>
<title>Weather Data</title>
<meta charset="ISO-8859-1">
<meta name="author" content="TawaraWeb A Candidate">
<meta name="description" content="Weather data for the Tawara region">
<meta name="viewport" content="width=device-width, initial-scale=2.0">
<meta name="keywords" content="Tawara, weather">
<base target=" blank">
</head>
                       Head section <head>
                                                                                   1 mark
                                    <title>Weather Data</title>
                                                                                   1 mark
                                    <meta ... >
                                                                                   1 mark
                                    ... charset= ...
                                                                                   1 mark
                                    ... "ISO-8859-1"
                                                                                   1 mark
                                    <meta name= ... >
                                                                                   1 mark
                                    ... "author" ...
                                                                                   1 mark
                                    ... content="TawaraWeb A Candidate"
                                                                                   1 mark
                                    <meta name= ... >
                                                                                   1 mark
                                    ... "description" ...
                                                                                   1 mark
                                    ... content="Weather data for the Tawara region" 1 mark
                                    <meta name="viewport" ...>
                                                                                   1 mark
                                    ... content="width=device-width ...
                                                                                   1 mark
                                    ..., initial-scale=2.0"
                                                                                   1 mark
                                    <meta name="keywords" ... >
                                                                                   1 mark
                                    ... content=" ... "
                                                                                   1 mark
                                    ... Tawara ...
                                                                                   1 mark
                                                                                   1 mark
                                    ... comma separator
                                    ... weather
                                                                                   1 mark
```

<base ... >

</head>

target="\_blank"