



Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY

0983/22

Paper 2 Practical Test A

May/June 2021

MARK SCHEME

Maximum Mark: 80

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 2021 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

This document consists of **17** printed pages.

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.

EVIDENCE DOCUMENT

Step 1 – EVIDENCE 1

Page Setup

Margins Paper Layout

Margins

Top: 2 cm Bottom: 2 cm

Left: 2 cm Right: 2 cm

Gutter: 0 cm Gutter position: Left

Orientation

Top, bottom, left and right margins set to 2 centimetres 1 mark

Step 2 – EVIDENCE 2

MSREVIEW.docx

File saved as MSREVIEW with evidence of correct file type 1 mark

Step 4 – EVIDENCE 3

Modify Style

Properties

Name: MS-subhead

Style type: Paragraph

Style based on: Normal

Style for following paragraph: MS-subhead

Formatting

Arial 18 B I U Automatic

Font: 18 pt, Bold, Underline, Centered, Space After: 9 pt, Style: Show in the Styles gallery Based on: Normal

MS-subhead MS-subhead style created, named correctly, based on Normal/Default Sans-serif 18pt, centre, bold, underline, single, 0pt before 9pt after 1 mark

Step 6 – EVIDENCE 4

Modify Style

Properties

Name: MS-title

Style type: Paragraph

Style based on: Normal

Style for following paragraph: MS-title

Formatting

Times New Roman 18 B I U Automatic

Font: Times New Roman, 18 pt, Bold, Italic, Centered, Style: Show in the Styles gallery Based on: Normal

MS-title style modified Evidence of MS-title style modified, based on Normal/Default 1 mark

Step 19 – EVIDENCE 5

J2122DUATHLON	
Field Name	Data Type
First_Name	Short Text
Last_Name	Short Text
YOB	Number
Nationality	Short Text
Race_Number	Number
Total_Time	Date/Time
Run_1	Date/Time
T_1	Date/Time
Bike	Date/Time
T_2	Date/Time
Run_2	Date/Time
Cat_Code	Short Text
Stat_Code	Short Text
Position	Number

J2122CATEGORIES	
Field Name	Data Type
Cat_Code	Short Text
Race_Category	Short Text
Inter_Category	Short Text
Age_Band	Short Text
Gender	Short Text

J2122OUTCOMES	
Field Name	Data Type
Stat_Code	Short Text
Status	Short Text
Ranked	Yes/No

DB table structures

- J2122DUATHLON - all field names, data types as given 1 mark
- J2122CATEGORIES and J2122OUTCOMES - all field names, data types as given 1 mark
- Primary keys set on Race Number, Cat Code, Stat Code 1 mark

Step 20 – EVIDENCE 6

Table/Query: J2122CATEGORIES Related Table/Query: J2122DUATHLON

Cat_Code Cat_Code

Enforce Referential Integrity

Cascade Update Related Fields

Table/Query: J2122OUTCOMES Related Table/Query: J2122DUATHLON

Stat_Code Stat_Code

Enforce Referential Integrity

Cascade Update Related Fields

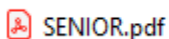
1-to-Many relationships:
 Cat_Code categories table and Cat_Code duathlon table
 Stat_Code outcomes table and Stat_Code duathlon table 1 mark

Step 23 – EVIDENCE 7

Number of athletes	=Count(*)
--------------------	-----------

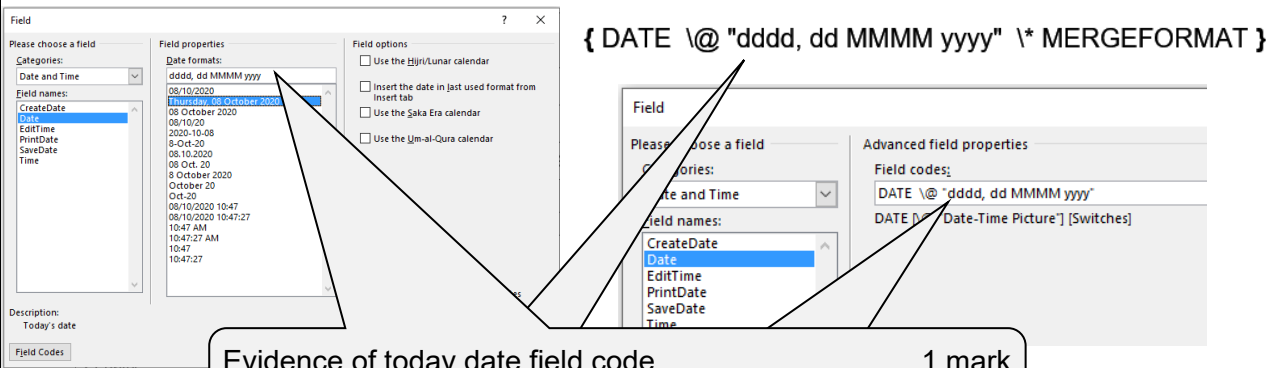
Database formula to calculate the number of athletes 1 mark

Step 24 – EVIDENCE 8



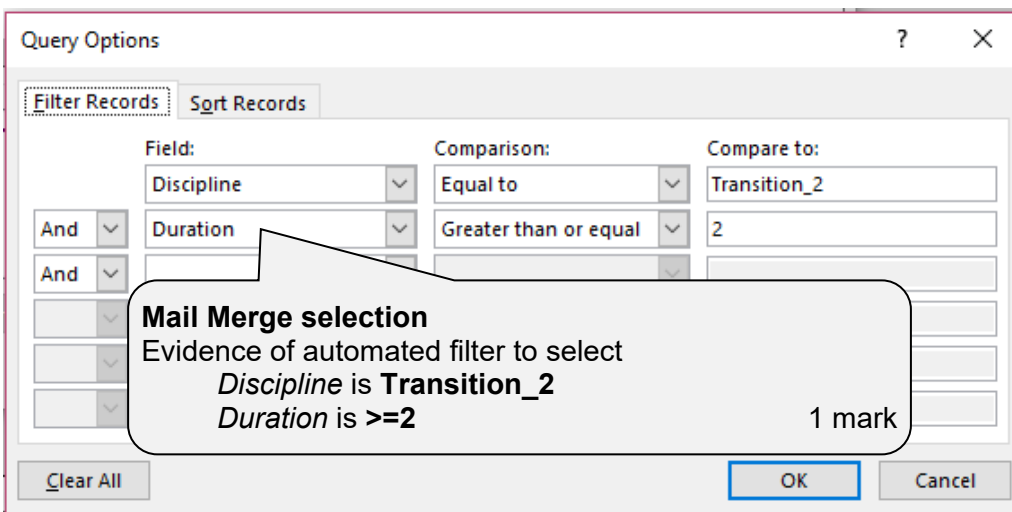
Report 2 exported in pdf format, outcome with file type 1 mark
 ... exported report saved as SENIOR 1 mark

Step 26 – EVIDENCE 9



Evidence of today date field code 1 mark
 Date field formatted as dddd, dd MMMM yyyy 1 mark

Step 27 – EVIDENCE 10



Mail Merge selection
 Evidence of automated filter to select
Discipline is Transition_2
Duration is >=2 1 mark

Title

Correct, 100% accurate, fully visible 1 mark

Specified fields, correct order 1 mark

Sort descending on *Status* 1 mark

Portrait, tabular, all fields present, fits a single page only,

no field width truncation

1 mark

Non-Ranking Elite Athletes

Name, centre number, candidate number

Race_Number	First_Name	Last_Name	Nationality	Race_Category	Status	Ranked
1075	Zoey	Berger	USA	Elite-Pro	Lapped	No
1260	Natalia	Del Bosque	MEX	Elite-Pro	Lapped	No
2152	Giovanna	Villard	BRA	Elite-Pro	Lapped	No
1464	Daichi	Hashimoto	JPN	Elite-Pro	Lapped	No
1605	Ferdinand	Kloosterman	NED	Elite-Pro	Lapped	No
1161	Eduardo	Caixeta	BRA	Elite-Pro	Lapped	No
1390	Lynn	Goldman	USA	Elite-Pro	Lapped	No
1426	Flavie	Dandurand	FRA	Elite-Pro	Lapped	No
2170	Zawadi	Wambua	KEN	Elite-Pro	Lapped	No
1779	Joben	Nakamura	JPN	Elite-Pro	Disqualified	No
1941	Carina	Leuenberger	SUI	Elite-Pro	Disqualified	No
2070	Emeline	Strathmann	GER	Elite-Pro	Disqualified	No
1243	Edouard	Guillemette	FRA	Elite-Pro	Disqualified	No
1573	Xavier	Kappel	NED	Elite-Pro	Disqualified	No
1160	Annabelle	Heginbotham	GBR	Elite-Pro	Disqualified	No
1206	Frederick	Coates	GBR	Elite-Pro	Disqualified	No
2039	Owen	Lloyd-Jones	CAN	Elite-Pro	Did Not Start	No
1440	Kimio	Hamamoto	JPN	Elite-Pro	Did Not Start	No
2000	Alessandro	Schmid	SUI	Elite-Pro	Did Not Start	No
2133	Arielle	Van der Meer	NED	Elite-Pro	Did Not Start	No
1069	Bernadette	Belanger	CAN	Elite-Pro	Did Not Finish	No
1569	Nadar	Kameshki	BRN	Elite-Pro	Did Not Finish	No
1735	Flavien	Mercier	FRA	Elite-Pro	Did Not Finish	No
1011	Remas	Ahmad	JOR	Elite-Pro	Did Not Finish	No
1702	Makena	Mbugua	KEN	Elite-Pro	Did Not Finish	No
1490	Akiko	Yamamoto	JPN	Elite-Pro	Did Not Finish	No
1441	Noor	Hamdan	JOR	Elite-Pro	Did Not Finish	No
1328	Daniela	Ferrero	ITA	Elite-Pro	Did Not Finish	No

Select records (28):*Race_Category* is **Elite-Pro** 1 mark*Stat_Code* does not include **FIN** 1 mark

PUBLISHED

Title

Correct, 100% accurate

1 mark

Calculated field

Heading 100% accurate

1 mark

Athlete_Age calculated - correct values 2021-[YOB]

1 mark

Senior Male UK Results

First_Name	Last_Name	Nationality	Gender	YOB	Athlete_Age	Run_1	T_1	Bike	T_2	Run_2	Total_Time	Position
Josh	Ellerbeck	GBR	Male	2001	20	00:41:55	00:01:18	01:12:40	00:01:47	00:22:44	02:20:24	664
Alex	Woodbury	GBR	Male	1983	38	00:42:52	00:01:13	01:11:19	00:01:47	00:22:39	02:19:50	654
Scott	Phillips	GBR	Male	1988	33	00:38:23	00:01:17	01:07:07	00:01:48	00:22:46	02:11:21	495
Tyler	Weiss	GBR	Male	1994	27	00:38:04	00:01:07	01:07:39	00:01:36	00:19:30	02:07:56	422
Calvin	Gibbins	GBR	Male	1985	36	00:37:06	00:01:36	01:04:22	00:01:42	00:19:28	02:04:14	338
Patrick	Gallagher	GBR	Male	1983	38	00:35:41	00:01:52	00:59:55	00:02:42	00:23:07	02:03:17	318
Karl	Linton	GBR	Male	1999	22	00:36:47	00:01:22	01:04:41	00:01:57	00:18:16	02:03:03	313
Hugh	Guinness	GBR	Male	1995	26	00:32:52	00:00:25	01:08:02	00:00:23	00:18:49	02:00:31	255
Spencer	Rawlinson	GBR	Male	1987	34	00:34:39	00:01:11	01:04:13	00:01:47	00:18:12	02:00:02	246
Wayne	Vaughan	GBR	Male	1983	38	00:36:38	00:01:15	01:00:25	00:01:38	00:18:36	01:58:32	217
Tim	Finlay	GBR	Male	1987	34	00:35:16	00:01:03	01:00:56	00:01:42	00:18:04	01:57:01	203
Clive	Smith	GBR	Male	2000	21	00:33:38	00:01:39	00:58:00	00:02:08	00:21:13	01:56:38	191
Alvaro	Rodriguez	GBR	Male	1995	26	00:30:56	00:00:24	01:07:45	00:00:22	00:16:43	01:56:10	184
Lee	Sprague	GBR	Male	1986	35	00:34:55	00:01:48	00:55:53	00:02:12	00:21:15	01:56:03	180
Travis	Webster	GBR	Male	1992	29	00:33:24	00:01:30	00:58:18	00:01:52	00:20:45	01:55:49	173
Oscar	Greenhalgh	GBR	Male	1998	23	00:33:32	00:01:39	00:57:08	00:02:18	00:20:52	01:55:29	166
Mark	Boyce	GBR	Male	1985	36	00:30:56	00:00:18	01:07:48	00:00:27	00:15:47	01:55:16	164
Adam	Marshall	GBR	Male	1982	39	00:33:42	00:01:44	00:55:27	00:02:29	00:21:51	01:55:13	163
Luke	Sommerville	GBR	Male	1983	38	00:33:47	00:01:56	00:56:37	00:02:11	00:20:38	01:55:09	160
Jon	Chapman	GBR	Male	1993	28	00:31:36	00:01:44	00:58:50	00:02:22	00:19:43	01:54:15	149
Matt	Gathard	GBR	Male	1986	35	00:31:25	00:01:58	00:56:56	00:02:13	00:19:43	01:52:15	119
Andrew	Metcalfe	GBR	Male	1983	38	00:32:39	00:01:56	00:55:50	00:02:16	00:19:14	01:51:55	115
George	Brentwood	GBR	Male	1986	35	00:31:28	00:01:44	00:54:28	00:02:09	00:19:45	01:49:34	97
Christian	Griffiths	GBR	Male	1997	24	00:31:50	00:01:21	00:55:21	00:01:54	00:19:07	01:49:33	96

Name, centre

Select records (42):*Nationality* is GBR or IRL 1 mark*Gender* is Male 1 mark*YOB* is >=1982 and <=2001 1 mark

Specified fields, correct order 1 mark

Landscape, tabular, one page wide, all base fields 1 mark

Fields adjusted to fit, no truncation on any field 1 mark

Sort ascending on *Nationality*, descending *Position* 1 mark

First_Name	Last_Name	Nationality	Gender	YOB	Athlete_Age	Run_1	T_1	Bike	T_2	Run_2	Total_Time	Position
Hayden	Porter	GBR	Male	1991	30	00:30:02	00:01:31	00:55:59	00:02:18	00:18:36	01:48:26	90
David	Trevelyan	GBR	Male	1989	32	00:31:26	00:01:32	00:52:18	00:02:01	00:18:42	01:45:59	68
Walter	Ruston	GBR	Male	1988	33	00:30:51	00:01:43	00:53:03	00:01:50	00:18:31	01:45:58	67
Graham	Boardman	GBR	Male	1982	39	00:31:26	00:01:33	00:51:29	00:02:06	00:19:21	01:45:55	66
Dean	Cheshire	GBR	Male	1984	37	00:29:40	00:01:20	00:52:50	00:01:58	00:18:20	01:44:08	53
Alexander	Bowen	GBR	Male	1985	36	00:27:53	00:00:43	00:53:42	00:00:45	00:14:04	01:37:07	8
Dylan	Flanagan	IRL	Male	2001	20	00:42:38	00:02:17	01:14:39	00:03:03	00:30:28	02:33:05	850
Reece	Delaney	IRL	Male	2001	20	00:40:07	00:07:05	01:04:55	00:02:01	00:20:36	02:14:44	566
Killian	Callaghan	IRL	Male	1991	30	00:36:12	00:01:12	01:00:55	00:03:13	00:25:51	02:14:20	556
Eugene	Tierney	IRL	Male	1991	30	00:36:12	00:01:12	00:58:26	00:02:37	00:23:15	02:03:21	321
Flynn	McCarthy	IRL	Male	1991	30	00:36:12	00:01:12	01:04:24	00:01:42	00:17:58	02:02:08	289
Eamon	Murphy	IRL	Male	1991	30	00:36:12	00:01:12	01:01:37	00:01:39	00:19:02	02:01:42	279
Aidan	Donoghue	IRL	Male	2000	21	00:34:06	00:01:46	00:57:16	00:02:32	00:20:25	01:56:05	182
Liam	Shanahan	IRL	Male	1993	28	00:31:10	00:01:41	00:55:50	00:01:58	00:20:36	01:51:15	107
Shane	Rafferty	IRL	Male	1990	31	00:32:24	00:01:32	00:52:35	00:02:20	00:19:45	01:48:36	92
Colm	Doyle	IRL	Male	1996	25	00:30:01	00:00:46	01:00:13	00:00:47	00:15:33	01:47:20	80
Ronan	Byrne	IRL	Male	1986	35	00:32:06	00:01:28	00:50:56	00:02:18	00:19:23	01:46:11	69
Shane	Donnelly	IRL	Male	1987	34	00:29:05	00:01:21	00:50:33	00:01:52	00:17:53	01:40:44	27

New record **Dean Cheshire**, inserted only once, does not replace record Graham Boardman 1 mark
New record 100% accurate 1 mark

Number of athletes

42

Calculates correct number of athletes, positioned end of report, integer display 1 mark
Label 100% accurate, left of value 1 mark

Name, centre number, candidate number

Name, centre number, candidate number displays in report footer, on every page, no other data 1 mark

Format/Display

Report 1 - *Ranked* displays as Yes/No
Report 2 - all times displays hh:mm:ss, all other values as integer 1 mark

PUBLISHED**Task 4 – Mail Merge**

Name, centre number, candidate number in header

1 mark

Name, centre number, candidate number

OSTVILLE DUATHLON**Penalty Voucher**

Competitor «Full_Name», representing «Country»

committed a rule violation at Ostville Duathlon on

{ DATE \@ "dddd, dd MMMM yyyy" * MERGEFORMAT }

details of race penalty incurred:

ATHLETE DETAILS	
Race Number:	«Race_Number»
Club:	«Club»
Gender and Race Category:	«Gender», «Race_Category»
RULE VIOLATION AND PENALTY DETAILS	
Race Segment:	«Discipline»
Time of Violation:	«Time_Incurred»
Type of Violation:	«Violation»
Penalty:	«Penalty»
Time Served:	«Duration» minutes
Issuing Officer:	«Tech_Officer»

Race Director: Signed on:

You are entitled to appeal against this penalty. Appeal Forms are available on request.

You must make your intention to appeal known to the Race Director within 15 minutes of your finishing time. Your completed Appeal Form must be filed no later than one hour after your finishing time. The Appeal Form must be signed and accompanied by a fee of £30 which will be refunded if your appeal is successful. Please note that appeals cannot be made on judgment calls such as drafting, littering, blocking or unsportsmanlike conduct.

Merge Fields inserted – Placeholders and <> replaced

Fields «Full_Name» | «Country» | «Race_Number» | «Club» in correct position 1 mark

Fields «Gender» | «Race_Category» | «Discipline» | «Time_Incurred» in correct position 1 mark

Fields «Violation» | «Penalty» | «Duration» | «Tech_Officer» in correct position 1 mark

Correct spacing with punctuation maintained 1 mark

Name, centre number, candidate number

OSTVILLE DUATHLON

Penalty Voucher

Competitor **Fredrik Dudek**, representing **Germany**

committed a rule violation at Ostville Duathlon on

Saturday, 24 April 2021

details of race penalty incurred:

ATHLETE DETAILS	
Race Number:	1053
Club:	Tri-Angels
Gender and Race Category:	Male, Super Veteran
RULE VIOLATION AND PENALTY DETAILS	
Race Segment:	Transition 2
Time of Violation:	11:02
Type of Violation:	Using communication device (mobile phone)
Penalty:	Time penalty
Time Served:	2 minutes
Issuing Officer:	Nathan Whitehead

Race Director: Signed on:

You are entitled to appeal against this penalty. Appeal Forms are available on request.

You must make your intention to appeal known to the Race Director within 15 minutes of your finishing time. Your completed Appeal Form must be filed no later than one hour after your finishing time. The Appeal Form must be signed and accompanied by a fee of £30 which will be refunded if your appeal is successful. Please note that appeals cannot be made on judgment calls such as drafting, littering, blocking or unsportsmanlike conduct.

Result of merge – correct 3 penalty vouchers printed –
Fredrik Dudek, Olaf Balcerzak, Hamish Whitworth only 1 mark

Name, centre number, candidate number

OSTVILLE DUATHLON
Penalty VoucherCompetitor **Olaf Balcerzak**, representing **Norway**

committed a rule violation at Ostville Duathlon on

Saturday, 24 April 2021

details of race penalty incurred:

ATHLETE DETAILS	
Race Number:	1116
Club:	Velocity Cyclops
Gender and Race Category:	Male, Master
RULE VIOLATION AND PENALTY DETAILS	
Race Segment:	Transition 2
Time of Violation:	10:52
Type of Violation:	Racing with an exposed torso
Penalty:	Time penalty
Time Served:	2 minutes
Issuing Officer:	Saeed Harib

Race Director: Signed on:

You are entitled to appeal against this penalty. Appeal Forms are available on request.

You must make your intention to appeal known to the Race Director within 15 minutes of your finishing time. Your completed Appeal Form must be filed no later than one hour after your finishing time. The Appeal Form must be signed and accompanied by a fee of £30 which will be refunded if your appeal is successful. Please note that appeals cannot be made on judgment calls such as drafting, littering, blocking or unsportsmanlike conduct.

Name, centre number, candidate number

OSTVILLE DUATHLON
Penalty VoucherCompetitor **Hamish Whitworth**, representing **United Arab Emirates**

committed a rule violation at Ostville Duathlon on

Saturday, 24 April 2021

details of race penalty incurred:

ATHLETE DETAILS	
Race Number:	1497
Club:	Synergy Racing
Gender and Race Category:	Male, Elite
RULE VIOLATION AND PENALTY DETAILS	
Race Segment:	Transition_2
Time of Violation:	10:36
Type of Violation:	Blocking
Penalty:	Time penalty
Time Served:	3 minutes
Issuing Officer:	Miguel Lopez

Race Director: Signed on:

You are entitled to appeal against this penalty. Appeal Forms are available on request.

You must make your intention to appeal known to the Race Director within 15 minutes of your finishing time. Your completed Appeal Form must be filed no later than one hour after your finishing time. The Appeal Form must be signed and accompanied by a fee of £30 which will be refunded if your appeal is successful. Please note that appeals cannot be made on judgment calls such as drafting, littering, blocking or unsportsmanlike conduct.

Presentation complete - slides imported, title/bullet layout, no blank slides/no text changed, Name, centre number, candidate number in footer on every slide 1 mark
All slides printed with 2 slides to page, each filling half page 1 mark

Race Rules and Competitor Conduct

- Guidance Notes

Name, centre number, candidate number

General Conduct

- must practice good sportsmanship at all times
- must know, understand and follow the event rules and regulations
- rubbish and equipment must not be disposed of on the course
- banned equipment including MP3 players, mobile phones and personal video recording devices must not be used
- all competitors must attend the compulsory pre-race briefing
- race numbers must not be folded or modified in any way
- competitors must not receive outside assistance from non-race officials

Name, centre number, candidate number

14/05/2021

Running

- competitors can run or walk - crawling is not permitted
- running with a bike helmet on/without shoes is not permitted
- race number must be clearly displayed on the front
- non-competing helpers, team members, managers or other pacemakers are not permitted to accompany competitors on or alongside the course
- competitors must follow the prescribed run course

Name, centre number, candidate number

Transition

- bikes must be racked so they do not block or interfere with other competitors
- helpers, friends, family members and pets are not permitted in transition areas
- competitors must not:
 - *impede the progress of other competitors*
 - *interfere with another competitor's equipment*
 - *cycle in the transition area*

Correct 3 original lines indented, consistent bullets and left aligned 1 mark
3 lines smaller font size, italic, with dashed, -, bullets 1 mark

25/09/2019

Cycling

- bike must be in a safe and roadworthy condition
- approved safety helmets must be worn and clipped before the bike is touched
- race number must be clearly displayed on the back
- drafting off another competitor or vehicle is not permitted
- faster riders must be allowed to pass - blocking is not permitted
- the rules of the road must be obeyed
- dangerous riding will result in a disqualification

Name, centre number, candidate number

Common Penalties

Conduct	Type of Penalty		
	Stop and Go	Time	Disqualification
Failing to follow or complete the entire course			X
Abusive language, violent behaviour or dangerous conduct			X
Outside assistance from non-race officials	X		X
Not wearing or altering the race numbers provided	X	X	
Discarding equipment/littering	X		X
Competing with a bare torso, nudity or indecent exposure	X		X
Use of banned equipment eg mobile phone, MP3 player, personal video recording devices	X		X
Not wearing a cycle helmet during the bike segment			X
Cycle helmet not securely fastened	X	X	
Drafting or blocking the progress of other competitors		X	X
Illegal bike pass		X	
Cycling in the transition area		X	
Tampering with the equipment of others			X

Name, centre number, candidate number

- | | |
|--|--------|
| Slide layout changed to title and 4 column x 13 row table | 1 mark |
| All data copied into table | 1 mark |
| 2 new rows inserted at top of table | 1 mark |
| Text entered 100% accurate in correct cells | 1 mark |
| Column 1, rows 1 & 2 merged, text centre aligned horizontally & vertically | 1 mark |
| Columns 2, 3 & 4 row 1 merged, text centred horizontally in rows 1 and 2 | 1 mark |
| Grey shading applied rows 1 & 2, title rows text black and bold | 1 mark |
| Column 1 displayed on one line, content fits on slide, fully visible | 1 mark |
| Plain table style applied rows 3 - 13, all gridlines displayed | 1 mark |