

Mark Scheme (Results)

June 2014

Pearson Edexcel International GCSE
in ICT (4IT0) Paper 02

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Summer 2014

Publications Code UG039181

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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. **Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.**
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a **candidate's response, the team leader must be consulted.**
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Activity 1: Using Spreadsheet Software (SS)

SS1 May be awarded from formula view

	A	B	C	D	E	F
1	Income from bicycle rentals in April					
2						
3			Number of Rentals			
4	Bicycle Type	Rental Charge	Week 1	Week 2	Week 3	Week 4
5	Dirtbuster	£8.00	33	46	36	59
6	Family Tandem	£15.00	42	30	53	41
7	Mountain Chaser	£11.00	39	40	52	49
8	Speedster	£16.00	40	59	45	54
9	Stardriver	£17.00	43	50	60	32
10	Two Wheel Angel	£8.00	42	51	39	36
11						
12	Total Income					

1 A5:A10 sorted in alphabetical order – Dirtbuster, Family Tandem ... Two Wheel Angel

1

2 A5:F10 sorted in order of Bicycle Type – Dirtbuster, 8, 33, 46, 36, 59 or Two Wheel Angel, 8,42 ...

1

Total for Task SS1

2

SS2 Allow the use of different cell references if additional columns/rows inserted

	A	G	H
1	Income from bicycle rentals in April		
2			
3			
4	Bicycle Type	Total	Income
5	Dirtbuster	=SUM(C5:F5)	=B5*G5
6	Family Tandem	=SUM(C6:F6)	=B6*G6
7	Mountain Chaser	=SUM(C7:F7)	=B7*G7
8	Speedster	=SUM(C8:F8)	=B8*G8
9	Stardriver	=SUM(C9:F9)	=B9*G9
10	Two Wheel Angel	=SUM(C10:F10)	=B10*G10
11			
12	Total Income		=SUM(H5:H10)

(i) 1 Formula using cell references entered in cell G5 which calculates total number of rentals (eg =SUM(C5:F5) or =C5+D5+E5+F5)
Allow correct value in data view (174)

1

2 =SUM(C5:F5) entered in G5 (efficient formula)

1

(ii) 1 =B5*G5 or =G5*B5 or =PRODUCT(B5,G5) entered in H5
Allow inefficient formula using cell references which produces correct result eg =SUM(B5*G5)

1

(iii) 1 Formulae in G5 and H5 replicated to cells G6:H10

1

(iv) 1 Suitable column labels entered in cells G4 and H4 eg „Total“ & „Income“
(Can be awarded from data view)

1

(v) 1 =H5+H6+H7+H8+H9+H10 or =SUM(H5:H10) or =SUM(H5:H11) entered in cell B12 or H12 or A13
OR
=SUM(H5:H10) in other cell

1

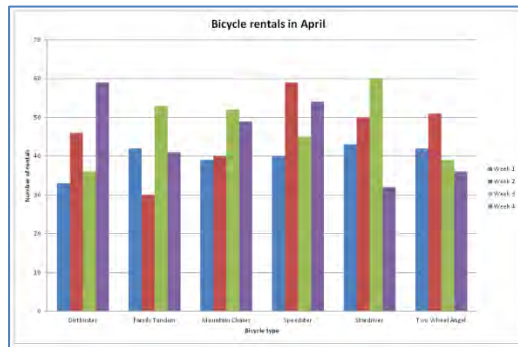
2 =SUM(H5:H10) entered in cell B12 or H12 or A13

1

Total for Task SS2

7

SS3



1	Bar or column chart or line graph which includes A5:A10 (bicycle types) and C5:F10 (number of rentals each week) Award if additional data is included	1
2	Suitable chart title Must indicate „Bicycle/Rentals” and „April”	1
3	Legend which clearly identifies each data series (Week 1, Week 2 etc)	1
4	Appropriate x-axis and y-axis labels eg. „Bicycle” and „Number/Rentals”	1
5	Chart is fit for purpose Must have marking points 1-4 and: <ul style="list-style-type: none"> no unnecessary information included in chart e.g. No additional columns, no data labels no truncation of category names or legend must be bar or column chart printed on a separate sheet (without data or spreadsheet grid) sensible capitalisation and correct spelling of labels/titles 	1
Total for Task SS3		5

SS4 Award marks in (a) only from formula view

14				
15				
16	Bicycle Type	Rental Charge	Number Required	Cost
17	Dirtbuster	8	0	=B17*C17
18	Family Tandem	15	0	=B18*C18
19	Mountain Chaser	11	0	=B19*C19
20	Speedster	16	0	=B20*C20
21	Stardriver	17	0	=B21*C21
22	Two Wheel Angel	8	0	=B22*C22
23			Total Cost	=SUM(D17:D22)
24			Discount	=IF(D23>=300,D23*F27,0)
25			Invoice Total	=D23-D24
26				
27				Disc

(a)	(i)	1	=B17*C17 or =PRODUCT(B17,C17) in cell D17 Do not award for =SUM(B17*C17) or =PRODUCT(B17*C17)	1
	(ii)	1	Formula in D17 replicated to cells D18:D22 – allow follow through	1
	(iii)	1	=SUM(D17:D22) entered in cell D23	1
	(iv)	1 2 3	Award 1 mark for comparison of D23 with 300 in cell D24 =IF(D23>=300 or =IF(D23<300 or =IF(D23>300 or =IF(D23<=300 or =IF(D23=300 Award 1 mark for D23*F27 in appropriate location in IF function in cell D24 eg =IF(D23>=300,D23*F27 or =IF(D23<300, ,D23*F27) or =IF(D23>300,D23*F27 or =IF(D23<=300, ,D23*F27) Award 1 mark for completely correct formula =IF(D23>=300,D23*F27,0) or =IF(D23<300, 0,D23*F27)	3
	(v)	1	=D23-D24 in cell D25. Do not award for =SUM(D23-D24)	1

PMMM Cycles Ltd 13 Mansion Street, Crixten Yorkshire BF5 1PL INVOICE			
Group Details Organisation: Mrs Francesca Gorst Group Name: Crixten Cyclers Address: 3 Meadow Lane Crixten Cyclers Yorkshire BF5 1MM			
Bicycle Type	Rental Charge	Number Required	Cost
Commuter	£8.00	7	£56.00
Family/Leisure	£15.00	4	£60.00
Mountain/Tracker	£11.00	3	£33.00
Speedster	£16.00	4	£64.00
Standard	£17.00	3	£51.00
Two Wheel Apsol	£8.00	4	£32.00
Total Cost			£336.00
Discount			£43.56
Invoice Total			£292.44

Marks for (b), (c)(i) and (d) can be awarded from a screen shot or from formula view				
(b)	(i)	1	Values in cells B17:B22 and D17:D25 formatted to show currency symbol and 2 decimal places	1
	(ii)	1 2	Additional formatting feature which enhances layout. One mark each up to a maximum of two for any of: <ul style="list-style-type: none"> • cells A1:A4 formatted suitably for heading eg. Any one of enlarged font for company name, merging of cells • highlighting of „Invoice“ and/or „Group Details“ • consistent suitable borders/shading for cells A16:D22 and C23:D25 • sensible use of word wrap in cells A16:D16 • consistent enhanced column headings in A16:D16 and/or C23:C25 • consistent borders/shading for cells A1:A4 and/or A8:B12 • printed in portrait orientation (must be data view) 	2
(c)	(i)	1	Accurate data entry of: Mrs Francesca Gorst, Crixten Cyclers, 3 Meadow Lane, Crixten, Yorkshire, BF5 1MM	1
		2	Accurate data entry of number of bikes 7,4,6,4,5,4	1
	(ii)	1	Invoice printed in data view without discount label (in column E) and value on one A4 portrait sheet Do not accept screen shot	1
(d)		1 2	One mark each for two different explanations of how formatting changes made to the worksheet make it well-presented or easier to understand eg <ul style="list-style-type: none"> • enhanced company name to make it stand out • borders/shading to make it easier to read across the row • enhanced column headings make it easier to identify labels • word wrapping enables narrower columns when long labels used • merging of cells for title improve the look so title is centred across sheet Allow other sensible responses of identification and reason	2
Total for Task SS4				15

Total for Activity 1: 29 marks

Activity 2: Using Web Authoring Software (WA)

WA1



(a)	1	Some cropping attempted – image remains rectangular without distortion	1
	2	Some cropping on all sides – all of the bicycle and cyclist are visible	1
	3	Image cropped on all sides – very close to cyclist and bicycle	1

PMMM Cycles Ltd
01632 960123

[Home Page](#)

The Silver Sprite – Mountain Chaser
Just added to our range of bicycles
Adult mountain bicycle
Suitable for all ages from 12 upwards
Suitable for those who are more adventurous
Perfect for riding over rough ground
Excellent value at £11 per day
Foldaway style – can be carried on trains and in boot of car

(b)	(i)	1	Correct company name and telephone number present PMMM Cycles (Ltd) , 01632 960123	1	
		2	Logo inserted	1	
		3	Link to home page visible – award if evidence of hyperlink present (e.g. underline or icon)	1	
		4	Page content selected from INFORMATION. Do not award if „PAGE CONTENT“ is present	1	
		5	SILVERSPRITE or cropped image of SILVERSPRITE inserted	1	
	(ii)	1	Full page visible in screenshot	1	
		2	Layout is consistent with design – information and images as indicated on design	1	
		3	Colour scheme applied as on design – dark (blue) text on pale (blue) background	1	
		4	Suitability of fonts, sizes and styles for web page	1	
		5	Text showing no unnecessary hyphenation and images suitably sized without distortion	1	
	(c)	(i)	1	One mark each for two different explanations of how formatting features have been used to make the webpage fit for purpose Eg centre alignment of text and images in the page content to give more attractive appearance, font enhancements to make the sub-headings (“bicycle type”, “description”) stand out	2
			2		
		(ii)	1	One suitable change identified which would enhance page for visually impaired user eg option to change colour scheme, add text labels to image for screen reader, option to increase font size	1
			2	Explanation of how the change would assist visually impaired user – eg make it easier to read, aid screen reader to describe content of images	1

Total for Task WA1 17

Total for Activity 2: 17 marks

Activity 3: Using Database Software (DB)

DB1 Marking points (a) (i) 2 to 6 can be awarded from design view

The screenshot shows a data entry form titled 'CUSTOMER CONTACT DETAILS'. The fields and their values are: ID: 17LR, TITLE: Dr, FIRST NAME: Rose, LAST NAME: Lockyer, ADDRESS 1: 62 Moss Road, ADDRESS 2: Flixbridge, POSTCODE: BE3 8ER, MOBILE NO: 07700 900597, and GENDER: F. The form has a search bar at the bottom with 'Record: 1 of 25' and '16 Filter: Search'.

(a)	(i)	1	Screenshot shows data entry form – data entry view	1
		2	Appropriate title on form must include „Contact“, „customer“ or similar but not just „Contact“	1
		3	Correct 9 fields only for form	1
		4	At least one field label customised appropriately from FIRSTN, LASTN, ADDR1, ADDR2, POSTC, MOBNO	1
		5	Use of a drop down list for at least one of TITLE or GENDER	1
		6	One appropriate additional enhancement from: <ul style="list-style-type: none"> • Customisation of all of FIRSTN, LASTN, ADDR1, ADDR2, POSTC, MOBNO • Additional navigation buttons • Customisation of input box length for any field • On-screen help text • Drop down list for both TITLE and GENDER 	1
(ii)	1	Allow one mark for identification of mobile phone number as either <ul style="list-style-type: none"> • not being used in calculations • starting with a zero/often contains spaces 	1	
		(iii) 1	Allow one mark for either <ul style="list-style-type: none"> • limited range of values • makes sure that data entry is more accurate/consistent 	1

The screenshot shows a database table with the following columns: ID, TITLE, FIRSTN, LASTN, ADDR1, ADDR2, POSTC, MOBNO, and GENDER. The records are sorted by LASTN in ascending order. The first record is Arufuron (Ms, Roseanne) and the last record is Violett (Ms, Kern).

(b)		1	Table sorted in ascending order of LASTN – Arufuron to Violett	1
		2	25 Records and 9 fields printed without truncation – may be on more than one page	1
Total for Task DB1				10

DB2 Marks may be awarded from query design

TITLE	FIRSTN	LASTN	ADDR1	POSTC	MOBNO
Ms	Alex	Finch	144 Candid Street	BG2 7RG	07700 900367
Ms	Lucy	King	16 Theatre Way	BG2 4EI	07700 900918
Dr	Rose	Lockyer	62 Moss Road	BE3 8ER	07700 900597
Dr	Lorner	Peters	70 Moss Road	BF4 9RE	07700 900133
Ms	Jo	Davis	59 Obere St	BE3 9CN	07700 900117
Dr	Elizabeth	Parker	91 Capital Way	BG2 5SD	07700 900818
Dr	Charlotte	Russell	16 Edgeham Hollow	BE3 2RN	07700 900847
Dr	Maria	Kyriacou	78 Moss Road	BG2 2HF	07700 900637
Ms	Sally	Brean	59 Obere St	BE3 9MA	07700 900344
Ms	Roxanne	Arafuron	19 Theatre Street	BE3 6QG	07700 900300
Ms	Hester	Jacobs	154 Garrett Hill	BE3 5CO	07700 900388
Ms	Serena	Hutton	43 Miner Rd	BE3 8IC	07700 900654
Ms	Thadia	Olsen	146 Garrett Hill	BE3 1TG	07700 900797
Ms	Kerri	Violet	1 South Street	BE3 5KT	07700 900820
*					

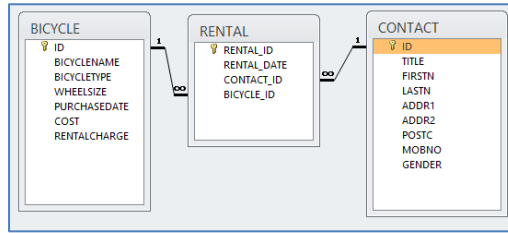
(a)	1	Correct 14 records. Minimum FIRSTN, LASTN fields	1
	2	Only fields TITLE, FIRSTN, LASTN, ADDR1, POSTC, MOBNO present in printout	1
	3	TITLE, FIRSTN, LASTN, ADDR1, POSTC, MOBNO in correct order Ignore single extra field	1

BICYCLENAME	BICYCLETYPE	PURCHASEDATE	COST
Top Drawer	Family Tandem	08/07/2012	£356.00
Eagle's Wings	Family Tandem	05/01/2012	£329.00
Mother's Comforter	Family Tandem	26/03/2012	£336.00
Childsafe	Family Tandem	29/07/2012	£360.00
*			

(b)	1	Award 2 marks for Correct 4 records. Minimum of BICYCLENAME field	2
	2		
		Award 1 mark for Correct 7 records (TYPE=Family Tandem) OR correct 6 records (All dates in 2012) OR Correct 9 records (TYPE=Family Tandem OR dates in 2012)	
	3	Correct fields BICYCLENAME, BICYCLETYPE, PURCHASEDATE and COST only	1

Total for Task DB2 **6**

DB3



(a)	1	Link between ID in BICYCLE to BICYCLE_ID in RENTAL	1
	2	Link between ID in CONTACT and CONTACT_ID in RENTAL	1
	3	Both links correctly shown as 1 to many (∞)	1

(b)	1	Screen shot of query design showing at least 1 table, 1 field and 1 criteria row	1
	2	One field from each table present (allow if evidenced in printout of results of search)	1
	3	RENTAL_DATE, FIRSTN, LASTN, MOBNO, BICYCLENAME and RENTALCHARGE only to be printed (allow if evidenced in printout of results of search)	1
	4	Award two marks for (must be design view): Criteria in RENTAL_DATE field is 5/5/2014 OR 12/5/2014 OR 19/5/2014 OR 26/5/2014 Criteria might be on separate rows Accept any date format Award 1 mark for: (must be design view): At least two of the dates 5/5, 12/5, 19/5, 26/5 in criteria of RENTAL_DATE field (Criteria may be incorrect)	2
	5		

Total for Task DB3 **8**

DB4 Must be a database report for any marks

Rentals of bicycles on Mondays in May				
RENTAL DATE	LAST NAME	MOBILE NO	BICYCLE NAME	RENTAL CHARGE
05/05/2014	Khan	07700 900382	Spearhead	£8.00
12/05/2014	Murray	07700 900156	Perfect Flight	£8.00
12/05/2014	Christopher	07700 900409	Top Drawer	£15.00
19/05/2014	Mahmud	07700 900629	Rough Rider	£8.00
19/05/2014	Peters	07700 900133	Angelfire	£8.00
19/05/2014	Jacobs	07700 900388	Top Drawer	£15.00
26/05/2014	Lockyer	07700 900597	Snake Charmer	£8.00
26/05/2014	Lockyer	07700 900597	Mudslinger	£8.00

20 May 2014 Page 1 of 1

1	Suitable title must include “rental” , “Monday” and “May” Suitable capitalisation	1
2	Correct 5 fields only: RENTAL_DATE , LASTN , MOBNO , BICYCLENAME and RENTALCHARGE in correct order	1
3	All 5 field headings suitably customised	1
4	Correct 8 records only Must have at least one field from each table (RENTAL_DATE , LASTN/MOBNO & BICYCLENAME/RENTALCHARGE)	1
5	Suitable, consistent layout on one side of A4 with one of: name, candidate details and Task DB4 in page footer	1
Total for Task DB4		5

Total for Activity 3: 29 marks

Activity 4: Using Presentation Software (PS)

PS1 Must be master slide for all except first mark point




(a)	(i)	1	Logo added to bottom right of Master slide OR shown consistently on all slides	1
	(ii)	1	Font changed from Brushscript to Arial or similar on Master slide	1
	(iii)	1	Name and candidate number entered in the middle section of the footer on Master slide	1
		2	Date place holder deleted from footer of Master slide	1
iv	1	Screen shot of complete Master slide pasted into word processed document	1	
(b)	(i)	1	Suitable title on slides 2 to 4: eg route, requirements and contact	1
		2	Suitable image on each of slides 2 to 4. Do not accept Paris or India or animal. Accept repeated image	1
		3	Slide 2 names the 6 towns – Leeds, Harrogate, York, Malton, Scarborough and Whitby Slide 3 includes reference to age, health/fitness and clothing Slide 4 includes £300 and either phone number or email	1
		4	Suitable editing of text on slides 2-4. eg bulleted text or not all text present from data file	1
		5	Images on slides 2-4 suitable size without distortion and no overlap	1
		6	Titles, text and images located as indicated on design for slides 2 to 4 Ignore the logo	1
(ii)	1	Slides printed two to a page – not screen shots	1	
(c)	(i)	1	Award one mark for identifying a suitable feature Eg. <ul style="list-style-type: none"> • Text formatted as phrases rather than paragraphs • Use of text enhancements – bold, italics • Use of bullets/numbering • Colour scheme 	1
		2	Sensible explanation of identified feature	1
	(ii)	1	Award one mark for identifying a suitable change	1
		2	Award one mark for explanation of how change makes it more appealing to the target audience	1
Total for Task PS1				16

Total for Activity 4: 16 marks

Activity 5: Using DTP/ Word Processing Software (WP)

WP1



Report for the June Management Board Meeting

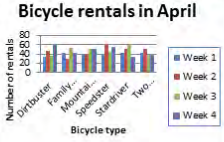
Rental Income
I have analysed the number of rentals during April. The graph shows that we are renting out at least 30 bicycles of each type each week. Our best performing bicycle type is the Speedster which had nearly 200 rentals during the month. The bicycle type with the worst performance was the Family Tandem. This could be due to the age of some of our bicycles in this range.

New bicycle
I have added a new bicycle to our range since our last meeting. I have managed to obtain a Mountain Chaser which I have called Silver Sprite. I have added a page to our website which gives details of the bicycle. Here is a copy of the page I produced.

Replacing older bicycles
I have previously mentioned my concern about the age of some of our bicycles, especially in the Family Tandem range. You will see from this extract of our database a list of bicycles in this range which were bought before the beginning of 2013. I think that we need to consider replacing these since they are becoming less profitable for the company.

Bicycle tour of Yorkshire
I have started to organise a bicycle tour of Yorkshire. I have obtained favourable rates for meals and accommodation and have managed to keep the costs down so that the charge to customers will be £300. This will still make a small profit for the company. I have been asked by Crixtren Cyclers to go to speak with them about the tour. Here is a copy of one of the slides I will be using in the talk. The slide gives details of the route we will take from Crixtren to Whitby.


Bicycle rentals in April



PHMM Cycles Ltd
01632 960123

111r Silver Sprite - Mountain Chaser

Route



BICYCLENAME	BICYCLETYPE	PURCHASEDATE	COST
Top Drawer	Family Tandem	08/07/2012	£356.00
Eagle's Wings	Family Tandem	05/01/2012	£329.00
Mother's Comforter	Family Tandem	26/03/2012	£336.00
Childsafe	Family Tandem	29/07/2012	£360.00

(i)	1	Text from JUNE. Must have title and 4 subheadings and paragraphs with labels removed	1
	2	Logo inserted in appropriate location	1
	3	At least 3 of chart, web page, database DB2b and slide inserted in document	1
	4	All 4 items (chart, web page, database DB2b and slide) inserted in document	1
	5	At least 2 of chart, web page, database DB2b and slide inserted with appropriate paragraph	1
	6	All 4 items (chart, web page, database DB2b and slide) inserted with appropriate paragraph	1
(ii)	1	All inserts are appropriate size with no distortion, truncation or overlap of text Inserts are within single paragraphs Inserts have unnecessary window elements cropped	1
	2	Consistent font, size and style used for each of <ul style="list-style-type: none"> sub-headings body text Title and sub-headings stand out from body text	1
	3	All items present and fit on one side A4 with no large areas of white space Items laid out consistently and well-balanced	1
Total for Task WP1			9

Total for Activity 5: 9 marks

