

MARK SCHEME for the May/June 2010 question paper
for the guidance of teachers

9713 APPLIED ICT

9713/02

Paper 2 (Practical Test A), maximum raw mark 120

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 must be read in conjunction with the question papers and the report on the examination.

- CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Page 2	Mark Scheme: Teachers' version	Syllabus	Paper
	GCE AS/A LEVEL – May/June 2010	9713	02

No marks to be awarded for any printout not containing the candidate name, candidate number and Centre number

Step 2

Candidate name, Centre number and candidate number

Cars	
Field Name	Data Type
CarID	Number
Make	Text
Model	Text
Colour	Text
PurchasePrice	Currency
SalePrice	Currency
Year	Number
Extras	Text
Sold	Yes/No
DateSold	Date/Time
CustID	Text

Table created
Appropriate table name
Accept JXCars ?
Field names meaningful & short
(Field names may vary)
Field types (1 mark per field)
If currency shown as numeric with evidence of currency in general tab then award
Primary key correct

1 mark
2 mark
9 marks
1 mark

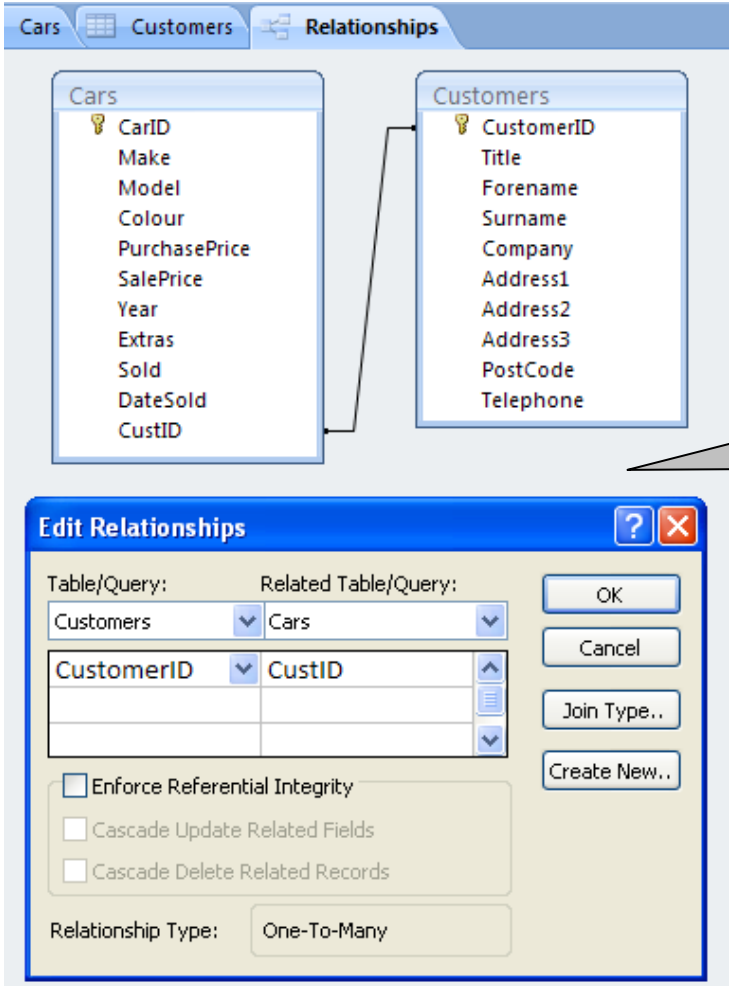
Candidate name, Centre number and candidate number

Customers	
Field Name	Data Type
CustomerID	Text
Title	Text
Forename	Text
Surname	Text
Company	Text
Address1	Text
Address2	Text
Address3	Text
PostCode	Text
Telephone	Text

Table created
Appropriate table and field names
Field types all correct
Primary key correct

1 mark
1 mark
1 mark

Candidate name, Centre number and candidate number



Customers.CustomerID	1 mark
Cars.CustID	1 mark
One-to-many	1 mark

Step 3

Cars.PurchasePrice

PurchasePrice	Currency																
SalePrice	Currency																
Year	Number																
Extras	Text																
Sold	Yes/No																
DateSold	Date/Time																
CustID	Text																
<table border="1"> <tr> <td>General</td> <td>Lookup</td> </tr> <tr> <td>Format</td> <td></td> </tr> <tr> <td>Decimal Places</td> <td>Auto</td> </tr> <tr> <td>Input Mask</td> <td></td> </tr> <tr> <td>Caption</td> <td></td> </tr> <tr> <td>Default Value</td> <td></td> </tr> <tr> <td>Validation Rule</td> <td>> = 500</td> </tr> <tr> <td>Validation Text</td> <td>We only buy cars for £500 or more</td> </tr> </table>		General	Lookup	Format		Decimal Places	Auto	Input Mask		Caption		Default Value		Validation Rule	> = 500	Validation Text	We only buy cars for £500 or more
General	Lookup																
Format																	
Decimal Places	Auto																
Input Mask																	
Caption																	
Default Value																	
Validation Rule	> = 500																
Validation Text	We only buy cars for £500 or more																

Rule correct	1 mark
Appropriate validation text	1 mark

Cars.SalePrice

SalePrice	Currency																
Year	Number																
Extras	Text																
Sold	Yes/No																
DateSold	Date/Time																
CustID	Text																
<table border="1"> <tr> <td>General</td> <td>Lookup</td> </tr> <tr> <td>Format</td> <td></td> </tr> <tr> <td>Decimal Places</td> <td>Auto</td> </tr> <tr> <td>Input Mask</td> <td></td> </tr> <tr> <td>Caption</td> <td></td> </tr> <tr> <td>Default Value</td> <td></td> </tr> <tr> <td>Validation Rule</td> <td>> = 1000</td> </tr> <tr> <td>Validation Text</td> <td>We only sell cars for £1000 or more</td> </tr> </table>		General	Lookup	Format		Decimal Places	Auto	Input Mask		Caption		Default Value		Validation Rule	> = 1000	Validation Text	We only sell cars for £1000 or more
General	Lookup																
Format																	
Decimal Places	Auto																
Input Mask																	
Caption																	
Default Value																	
Validation Rule	> = 1000																
Validation Text	We only sell cars for £1000 or more																

Rule correct	1 mark
Appropriate validation text	1 mark

Cars.Year

SalePrice	Currency
Year	Number
Extras	Text
Sold	Yes/No
DateSold	Date/Time
CustID	Text

General	
Field Size	Long Integer
Format	
Decimal Places	Auto
Input Mask	
Caption	
Default Value	
Validation Rule	>1990 And <2011
Validation Text	We only sell cars made after 1990

Greater than 1990 1 mark
 Appropriate validation text 1 mark

Cars.CustID

CustID	Text

General	
Field Size	255
Format	
Input Mask	L0000
Caption	
Default Value	
Validation Rule	Like "P?????" Or Like "B?????"
Validation Text	Enter P or B followed by 4 digits.

1 character 1 mark
 4 numbers 1 mark
 Allow these 2 marks if customer table
 shown like this and car table not shown

Customers.CustomerID

Field Name	Data Type
CustomerID	Text
Title	Text
Forename	Text
Surname	Text
Company	Text
Address1	Text
Address2	Text
Address3	Text
PostCode	Text
Telephone	Text

General	
Field Size	255
Format	
Input Mask	L0000
Caption	
Default Value	
Validation Rule	Like "P?????" Or Like "B?????"
Validation Text	Enter P or B followed by 4 digits

Same input mask as cars table 1 mark

Customers.Address3

Address3	Text
PostCode	Text
Telephone	Text

General	
Field Size	255
Format	
Input Mask	
Caption	
Default Value	
Validation Rule	"Essex" Or "Suffolk" Or "Cambridgeshire"

Essex 1 mark
 OR Suffolk 1 mark
 OR Cambridgeshire 1 mark

Customers.Telephone

Telephone	Text
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General	
Field Size	255
Format	
Input Mask	00000\ 000000

Input mask 1 mark
 5 numbers 1 mark
 Space (may be shown as \) 1 mark
 6 numbers 1 mark

Step 5

Candidate name, Centre number and candidate number

Cars sold to business customers

Make	PurchasePrice	SalePrice	DateSold	Company	Profit
Citroen	£3,550.00	£4,405.00	13/01/2009	RS Electrical	£855.00
Vauxhall	£5,995.00	£7,095.00	27/01/2009	Clacton Mobility Company	£1,100.00
Porsche	£39,995.00	£44,495.00	08/02/2009	Investments	£4,500.00
BMW	£15,995.00	£18,095.00	16/02/2009		
Alfa Romeo	£10,995.00	£12,595.00	28/02/2009		
Vauxhall	£6,100.00	£7,215.00	12/03/2009		
Ford	£1,400.00	£2,045.00	14/03/2009		
Skoda	£5,995.00	£7,095.00	19/03/2009		
Ford	£2,995.00	£3,795.00	25/03/2009		
Alfa Romeo	£12,495.00	£14,245.00	26/05/2009	AT Logistics	£1,750.00
Audi	£15,495.00	£17,545.00	28/05/2009	SF Martial Arts	£2,050.00
Ford	£2,695.00	£3,465.00	02/07/2009	Dynamite Fireworks	£770.00
Mercedes	£35,995.00	£40,095.00	13/07/2009	RS Electrical	£4,100.00
Renault	£3,995.00	£4,895.00	04/08/2009	Suffolk Steel	£900.00
Ford	£1,995.00	£2,695.00	26/08/2009	Steel Stockholders	£700.00
Ford	£2,995.00	£3,795.00	28/08/2009	JC Building Supplies	£800.00
Vauxhall	£3,995.00	£4,895.00	01/09/2009	Niceday Nursery	£900.00
Alfa Romeo	£7,995.00	£9,295.00	21/09/2009	SF Martial Arts	£1,300.00
Vauxhall	£3,500.00	£4,355.00	09/10/2009	P Dane Plumbing	£855.00
Ford	£6,250.00	£7,375.00	10/10/2009	Indian Curry Cuisine	£1,125.00
Ford	£2,995.00	£3,795.00	30/10/2009	EFL Schools Ltd	£800.00
Toyota	£13,995.00	£15,895.00	18/11/2009	Tilly's Pantry	£1,900.00
					£31,765.00

Name and numbers in header 1 mark
 Title 100% correct 1 mark
 Fields: Make 1 mark
 PurchasePrice 1 mark
 SalePrice 1 mark
 DateSold 1 mark
 Company 1 mark
 Each mark awarded only if label and data fully visible
 Subtract marks for additional fields (NOT Profit)

£67,700 f/t if no business search

Search	Sold	1 mark
	AND business customers	1 mark
Profit	New field	1 mark
	Correct calculation	2 marks
	Sterling & 2dp	1 mark
Total	Correct calculation	1 mark
	Sterling, 2dp & position	1 mark
	Must be below profit column	
Sorted	Ascending on DateSold	1 mark
PurchPr	Sterling & 2dp	1 mark
SalesPrice	Sterling & 2dp	1 mark

Step 7

Candidate name, Centre number and candidate number

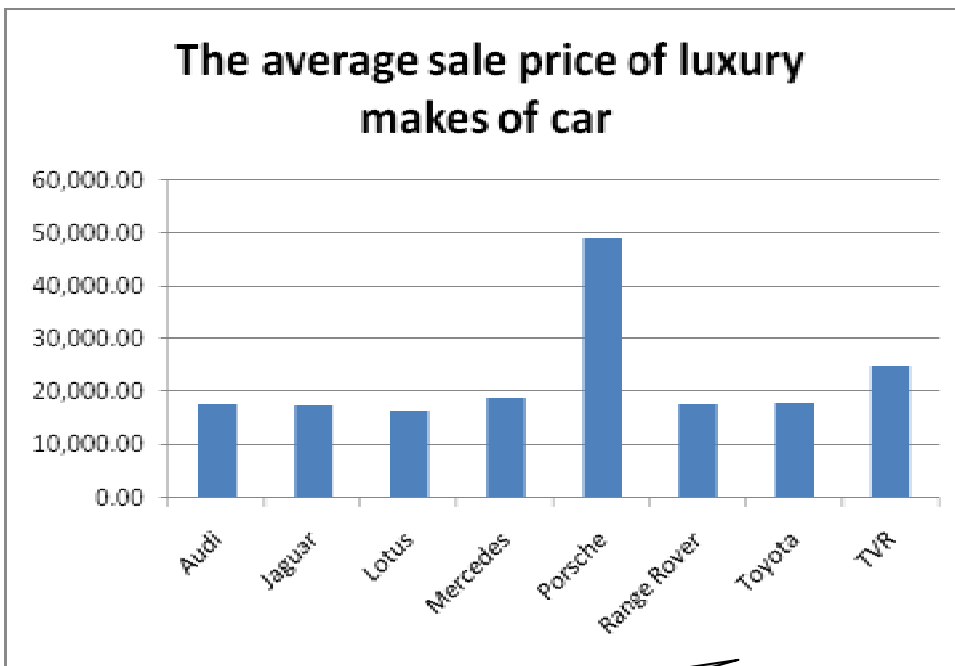
Average sale price of luxury cars

Make	Avg Of SalePrice
Audi	£17,545.00
Jaguar	£17,270.00
Lotus	£16,455.00
Mercedes	£18,745.00
Porsche	£48,895.00
Range Rover	£17,545.00
Toyota	£17,728.33
TVR	£24,700.00

Data	Correct averages on make	2 marks
	Average > 15000	1 mark
	Ascending order of make	1 mark
Title	100% correct	1 mark
Header	Name and numbers	1 mark

Step 8

Candidate name, Centre number and candidate number



Title	Appropriate & meaningful	1 mark
	Luxury required do not allow AVG	
Header	Name and numbers	1 mark
Chart type	Appropriate	2 marks
Axis	Labels/scale fully visible	1 mark
Values	Correct	1 mark
	Include follow through of searching	

Step 9

Candidate name, Centre number and candidate number

Average profit Query

SaleType	Avg Of Profit
B	£1,443.86
P	£1,437.40

Key

Please note b is the code for business customers and p is the code for personal customers.

Business	Correct calculation	2 marks
	-1 if incorrect formatting	
Personal	Correct calculation	2 marks
	-1 if incorrect formatting	
Header	Name and numbers	1 mark
Labels	Showing business/personal	1 mark
	May include a key	

Step 21

Chosen supplier

PriviPost

Supplier	Name copied or referenced	1 mark
Selection	PriviPost & total correct	4 marks

SUPPLIER TABLE

Supplier	Fixed fee	Number of properties		
		0	2000	20000
AB Leaflets	£25.00	0.03	0.02	0.012
PriviPost	£150.00	0.03	0.02	0.006
Royal Mail	£0.00	0.03	0.022	0.015
Tendring Leaflets	£50.00	0.03	0.03	0.015
X Mail	£1,000.00	0.03	0.005	0.002

AREA TABLE

Area	Properties	Fixed fee	Rate	Delivery	Total cost
Cambridge	27000	£150.00	0.006	£162.00	£312.00
Chelmsford	41000	£150.00	0.006	£246.00	£396.00
Clacton	13200	£150.00	0.02	£264.00	£414.00
Colchester	39000	£150.00	0.006	£234.00	£384.00
Hadleigh	1600	£150.00	0.03	£48.00	£198.00
Ipswich	29200	£150.00	0.006	£175.20	£325.20
	151000				£2,029.20

Candidate name, Centre number and candidate number

In footer	1 mark
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Step 16

Chosen supplier

=A8

SUPPLIER TABLE

Supplier	Fixed fee	Number	Rate
		0	2000
AB Leaflets	25	0.03	0.02
PriviPost	150	0.03	0.02
Royal Mail	0	0.03	0.022
Tendring Leaflets	50	0.03	0.03
X Mail	1000	0.0	0.005

Fixed Fee
 LOOKUP function used 1 mark
 Correct absolute reference 1 mark
 Correct absolute range 1 mark
 Correct return column 1 mark

Rate
 Nested if 1 mark
 Correct condition 1 mark
 LOOKUP function used 1 mark
 Correct absolute reference 1 mark
 Correct absolute range 1 mark
 Correct return column/range 1 mark
 Correct condition 1 mark
 LOOKUP function used 1 mark
 Correct absolute reference 1 mark
 Correct absolute range 1 mark
 Correct return column/range 1 mark
 Else
 LOOKUP function used 1 mark
 Correct absolute reference 1 mark
 Correct absolute range 1 mark
 Correct return column/range 1 mark

AREA TABLE

Area	Properties	Fixed fee	Rate
Cambridge	27000	=LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$B\$7:\$B\$11)	=IF(B15>=\$E\$6,LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$E\$7:\$E\$11),IF(B15>=\$D\$6,LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$D\$7:\$D\$11),LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$C\$7:\$C\$11)))
Chelmsford	41000	=LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$B\$7:\$B\$11)	=IF(B16>=\$E\$6,LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$E\$7:\$E\$11),IF(B16>=\$D\$6,LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$D\$7:\$D\$11),LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$C\$7:\$C\$11)))
Clacton	13200	=LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$B\$7:\$B\$11)	=IF(B17>=\$E\$6,LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$E\$7:\$E\$11),IF(B17>=\$D\$6,LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$D\$7:\$D\$11),LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$C\$7:\$C\$11)))
Colchester	39000	=LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$B\$7:\$B\$11)	=IF(B18>=\$E\$6,LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$E\$7:\$E\$11),IF(B18>=\$D\$6,LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$D\$7:\$D\$11),LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$C\$7:\$C\$11)))
Hadleigh	1600	=LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$B\$7:\$B\$11)	=IF(B19>=\$E\$6,LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$E\$7:\$E\$11),IF(B19>=\$D\$6,LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$D\$7:\$D\$11),LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$C\$7:\$C\$11)))
Ipswich	29200	=LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$B\$7:\$B\$11)	=IF(B20>=\$E\$6,LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$E\$7:\$E\$11),IF(B20>=\$D\$6,LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$D\$7:\$D\$11),LOOKUP(\$A\$2,\$A\$7:\$A\$11,\$C\$7:\$C\$11)))
	=SUM(B15:B20)		

Total number of properties
 Correct SUM 1 mark

20000

0.012

0.006

0.015

0.015

0.002

Delivery Properties * Rate 1 mark

Total Cost Fixed Fee + Rate 1 mark

Delivery	Total cost
=B15*D15	=C15+E15
=B16*D16	=C16+E16
=B17*D17	=C17+E17
=B18*D18	=C18+E18
=B19*D19	=C19+E19
=B20*D20	=C20+E20
	=SUM(F15:F20)

Total Cost for Region Correct SUM 1 mark

Replication All 4 correct 1 mark

Candidate name, centre number and candidate number

Page 12	Mark Scheme: Teachers' version	Syllabus	Paper
	GCE AS/A LEVEL – May/June 2010	9713	02

Content (K & U) – Maximum 12 marks

What is it:

'Document for publishing'

- Word processed
- Desktop Published
- Portable document format [Max 3]

'Accurate'

- Check what has been intended to be entered is entered
- Check it matches original brief/target audience [Max 1]

'Error free'

- Check that data contains no mistakes [1]

Accuracy can be achieved by:

- Verification
 - using double entry
 - visual verification (not proof reading) [Max 3]

Error free can be achieved by:

- Automated
 - Spell check
 - Each word is spelt as in local language dictionary
 - Grammar check
 - Syntax/structure of language/ensuring correct sentence construction
 - Correct spelling for the context used/accept examples like: there or their [Max 5]
- Manual
 - Copy-editing
 - Does it make sense
 - Ensures it matches pre-defined/corporate style
 - Proof reading
 - Does it make sense (if not given above)
 - Does it match the original brief/intended audience [Max 5]

Other tools used:

- Breaks (Page/column/section) to control
- Widows/orphan control
- Split lists
- Split tables
- Split rows within tables
- Use of templates
- Application of styles/consistent font/line/paragraph spacing
- Dictionary/Thesaurus to locate alternative words
- Allow track changes and auto-correction if used appropriately [Max 3]

[Maximum 12]

Page 13	Mark Scheme: Teachers' version	Syllabus	Paper
	GCE AS/A LEVEL – May/June 2010	9713	02

Practical skills – Maximum 8 marks

These practical skills will only be awarded marks if there are more than 100 words present.

Word processed document with:

- **consistent line spacing**
- **appropriate margins**
include hanging/indented paragraphs
- **suitable font styles**
- **suitable font sizes (>10 and <15)**
- **correct spelling, punctuation and grammar**
penalise for wrong target audience
- **<400 words**
- **single page**
- **appropriate title** Including style/size – must mention 'accurate' and 'error free'.

Candidate name, Centre number and candidate number