

**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.



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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

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

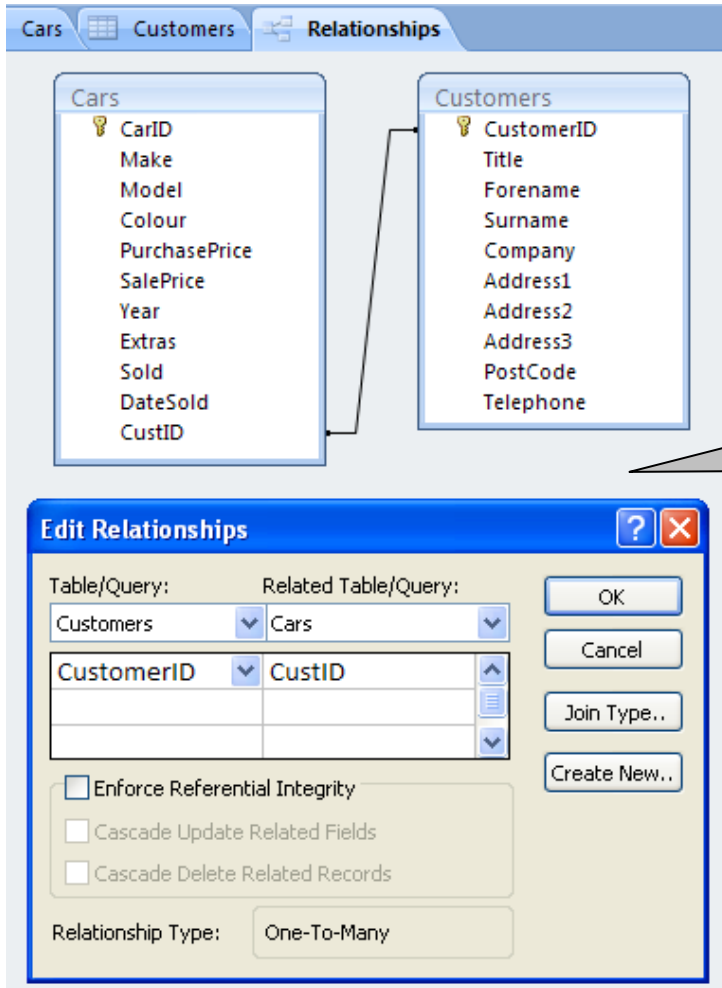
Table created  
 Appropriate table name  
 Accept JXCars ? 1 mark  
 Field names meaningful & short  
 (Field names may vary) 2 mark  
 Field types (1 mark per field) 9 marks  
 If currency shown as numeric with evidence of  
 currency in general tab then award  
 Primary key correct 1 mark

### Candidate name, Centre number and candidate number

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 1 mark  
 Field types all correct 1 mark  
 Primary key correct 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

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

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	
Lookup	
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	
Lookup	
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	Lookup
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	Lookup
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**

PostCode	Text
Telephone	Text

General	Lookup
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
	<b>Must be below profit column</b>	
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**

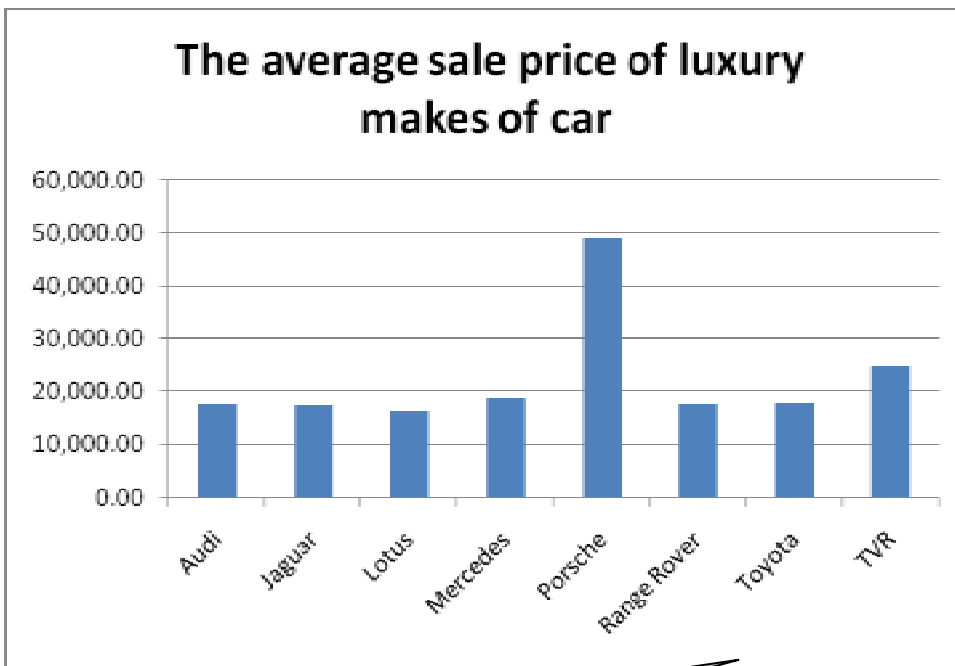
**Average sale price of luxury cars**

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
	<b>151000</b>				<b>£2,029.20</b>

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

#### 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)		

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

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**

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## 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]

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## 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**