

**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.

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|        |                                |          |       |
|--------|--------------------------------|----------|-------|
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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

| 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      |

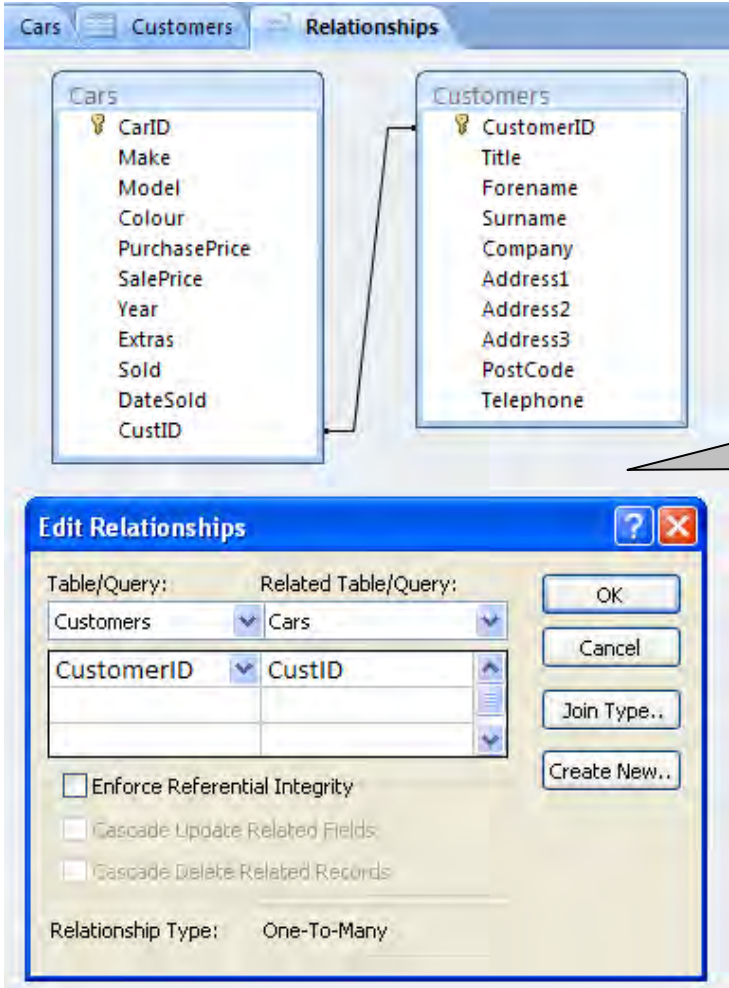
Table created  
 Appropriate table and field names  
 Field types all correct  
 Primary key correct

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      |

|                 |                                   |        |
|-----------------|-----------------------------------|--------|
| 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         |                                   |
| 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         | 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**

|           |      |
|-----------|------|
| Telephone | Text |
|-----------|------|

|            |              |
|------------|--------------|
| General    | Lookup       |
| Field Size | 255          |
| Format     |              |
| Input Mask | 00000\000000 |

Input mask 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

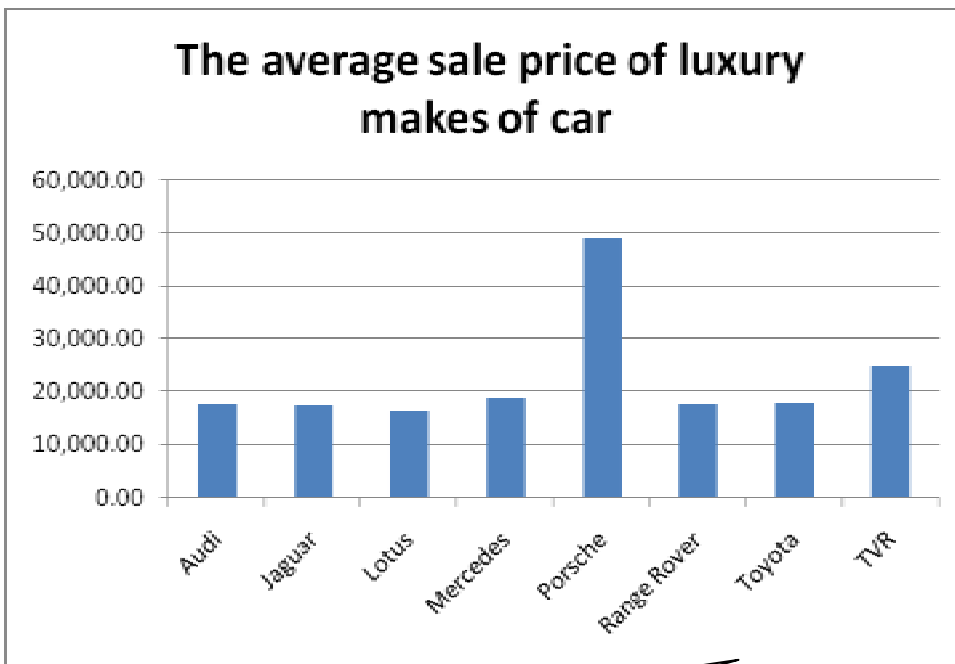
**Average sale price of luxury cars**

| 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 |
|-----------|--------|

### 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**

|         |                                |          |       |
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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**