UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International Diploma Standard Level

MARK SCHEME for the 2005 question paper

CAMBRIDGE INTERNATIONAL DIPLOMA IN ICT

5192 Data Analysis, maximum mark 100

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. They do not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the *Report on the Examination*.

• CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the November 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



2005

CAMBRIDGE INTERNATIONAL DIPLOMA

Standard Level

MARK SCHEME

MAXIMUM MARK: 100

PAPER: 5192/A

ICT (Data Analysis)



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| | CAMBRIDGE INTERNATIONAL DIPLOMA – 2005 | 5191/A |

| Formula: Countif the number Countif the number Alignment not importa Row/Column may not example Do not penalise the u ranges | of Large of Small ant t be the same as this se of named cells/ | e, else used con I multiply the co nment not import | tent of name ntent by Pur ant ot be the sam | chase price e as this example | Formula : Sale = Purch | nase + Increase |
|---|--|---|--|---|----------------------------------|-----------------|
| Number of items | 0.05 | _ | | \setminus / | | |
| Small | =COUNTIF(C9:C20,"Small") | - | | | \backslash | |
| Large | =COUNTIF(C9:C20,"Large") | | | | \backslash | |
| | · · · · · · · · · · · · · · · · · · · | - | | V | \ | l l |
| Date | ltem | Size of item | Purchase | Increase | | Sale |
| | Cafe espresso | | | =IF(D9>=300,D9*fi | ve,D9*three) | =SUM(D9:E9) |
| | Freezer | | | =IF(D10>=300,D10 | *five,D10*three) | =SUM(D10:E10) |
| | Fridge | | | =IF(D11>=300,D11 | *five,D11*three) | =SUM(D11:E11) |
| | Fridge/Freezer | | | =IF(D12>=300,D12 | *five,D12*three) | =SUM(D12:E12) |

Replication: Both formulae replicated correctly

Heater

Iron

Kettle

Oven

Microwave

Tumble Dryer

Vacuum Cleaner

Washing Machine

Layout - Data model created as shown All of the formulae and labels are visible in cell Single Landscape orientation

=IF(D13>=300,D13*five,D13*three)

=IF(D14>=300,D14*five,D14*three

=IF(D15>=300,D15*five,D15*three

=IF(D16>=300,D16*five,D16*three

=IF(D17>=300,D17*five,D17*three

=IF(D125=300,D18*five,D18*three

=IF(D19>=300,D19*five,D19*three

=IF(D20>=300,D20*five,D20*three

=SUM(D13:E13)

=SUM(D14:E14)

=SUM(D15:E15)

=SUM(D16:E16)

=SUM(D17:E17)

=SUM(D18:E18)

=SUM(D19:E19)

=SUM(D20:E20)

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| | Fo | ormat Mark-up data to % with 0 dp |
|----------|-------------------------------|-----------------------------------|
| Informat | ion table | |
| Mark-up | | 3% |
| | | 5% |
| Number | of items | |
| Small | | 6 |
| Large | Format: Date in this forma | at6 |

| Date | ltem | Size of item | Purchase | Increase | Sale |
|-------------------|-----------------|--------------|----------|----------|----------|
| January 24, 2005 | Cafe espresso | Small | \$29.00 | \$0.87 | \$29.87 |
| January 30, 2005 | Freezer | Large | \$399.00 | \$19.95 | \$418.95 |
| February 5, 2005 | Fridge | Large | \$305.00 | \$15.25 | \$320.25 |
| February 15, 2005 | Fridge/Freezer | Large | \$560.00 | \$28.00 | \$588.00 |
| March 19, 2005 | Heater | Small | \$20.00 | \$0.60 | \$20.60 |
| March 20, 2005 | Iron | Small | \$15.00 | \$0.45 | \$15.45 |
| March 26, 2005 | Kettle | Small | \$25.00 | \$0.75 | \$25.75 |
| April 2, 2005 | Microwave | Small | \$250.00 | \$7.50 | \$257.50 |
| May 2, 2005 | Oven | Large | \$678.00 | \$33.90 | \$711.90 |
| May 7, 2005 | Tumble Dryer | Large | \$299.00 | \$8.97 | \$307.97 |
| May 17, 2005 | Vacuum Cleaner | Small | \$78.00 | \$2.34 | \$80.34 |
| May 22, 2005 | Wa hing Machine | Large | \$695.00 | \$34.75 | \$729.75 |

Test data:

Date, Size of item and Purchase columns must be 100% accurate.

Format the results in the Purchase, Increase and Sales columns to 2dp displaying \$

Page orientation not specified This printout must show data and fit on a single page

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

Mark Scheme **CAMBRIDGE INTERNATIONAL DIPLOMA – 2005**

5191/A

Searching: Size of item equal Small Only these six rows should be visible

| Date | ltem | Size of item | Purchase | Increase | Sale |
|------------------|----------------|--------------|----------|----------|----------|
| January 24, 2005 | Cafe espresso | Small | \$29.00 | \$0.87 | \$29.87 |
| March 19, 2005 | Heater | Small | \$20.00 | \$0.60 | \$20.60 |
| March 20, 2005 | Iron | Small | \$15.00 | \$0.45 | \$15.45 |
| March 26, 2005 | Kettle | Small | \$25.00 | \$0.75 | \$25.75 |
| April 2, 2005 | Microwave | Small | \$250.00 | \$7.50 | \$257.50 |
| May 17, 2005 | Vacuum Cleaner | Small | \$78.00 | \$2.34 | \$80.34 |

Searching: Date greater than 13/03/05 and Purchase is greater than 550 Only these two rows should be visible

| Date | Stock item | Size of item | Purchase | Increase | Sale |
|--------------|-----------------|--------------|----------|----------|----------|
| May 2, 2005 | Oven | Large | \$678.00 | \$33.90 | \$711.90 |
| May 22, 2005 | Washing Machine | Large | \$695.00 | \$34.75 | \$729.75 |

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CAMBRIDGE INTERNATIONAL DIPLOMA

Standard Level

MARK SCHEME

MAXIMUM MARK: 100

PAPER: 5192/B

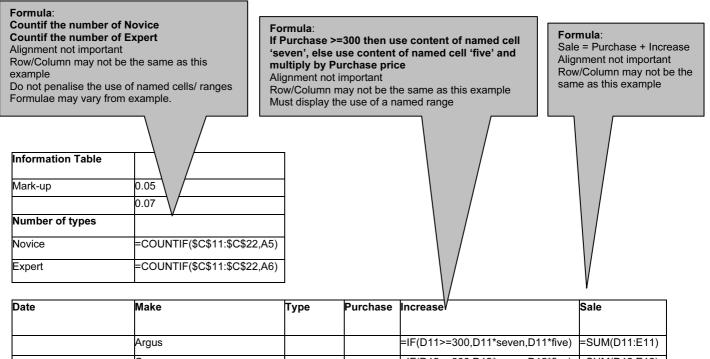
ICT (Data Analysis)



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2005

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| rigus | | | COM(BTILETT) |
|---------|---|----------------------------------|---------------|
| Canon | | =IF(D12>=300,D12*seven,D12*five) | =SUM(D12:E12) |
| Casio | | =IF(D13>=300,D13*seven,D13*five) | =SUM(D13:E13) |
| Fuji | | =IF(D14>=300,D14*seven,D14*five) | =SUM(D14:E14) |
| Kodak | | =IF(D15>=300,D15*seven,D15*five) | =SUM(D15:E15) |
| Konica | | =IF(D16>=300,D16*seven,D16*five) | =SUM(D16:E16) |
| Minolta | | =IF(D17>=300,D17*seven,D17*five) | =SUM(D17:E17) |
| Nikon | | =IF(D18>=300,D18*seven,D18*five) | =SUM(D18:E18) |
| Olympus | | =IF(D19>=300,D19*seven,D19*five) | =SUM(D19:E19) |
| Pentax | | =IF(D20>=300,D20*seven,D20*five) | =SUM(D20:E20) |
| Sony | | =IF(D21>=300,D21*seven,D21*five) | =SUM(D21:E21) |
| Toshiba | + | =IF(D22>=300,D22*seven,D22*five) | =SUM(D22:E22) |

Replication: Both formulae replicated correctly Layout - Data model created as shown All of the formulae and labels are visible in cell Single page landscape orientation

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| Format Mark-up data to % with 0 dp | | | |
|------------------------------------|----|--|--|
| Information Table | | | |
| Mark-up | 5% | | |
| | 7% | | |
| Number of Types | | | |
| Novice | 7 | | |
| Expert | 5 | | |
| | | | |

Format the results in the Purchase, Increase and Sale columns to 2dp/currency displaying the \$

Format Date to long date format

| Date | Make | Туре | Purchase | Increase | Sale |
|-------------------|---------|--------|------------|----------|------------|
| January 24, 2005 | Argus | Novice | \$199.00 | \$9.95 | \$208.95 |
| January 30, 2005 | Canon | Novice | \$399.00 | \$27.93 | \$426.93 |
| February 6, 2005 | Casio | Novice | \$305.00 | \$21.35 | \$326.35 |
| February 15, 2005 | Fuji | Expert | \$560.00 | \$39.20 | \$599.20 |
| March 19, 2005 | Kodak | Novice | \$345.00 | \$24.15 | \$369.15 |
| March 20, 2005 | Konica | Novice | \$314.00 | \$21.98 | \$335.98 |
| March 26, 2005 | Minolta | Novice | \$399.00 | \$27.93 | \$426.93 |
| April 2, 2005 | Nikon | Expert | \$685.00 | \$47.95 | \$732.95 |
| May 2, 2005 | Olympus | Expert | \$1,299.00 | \$90.93 | \$1,389.93 |
| May 7, 2005 | Pentax | Novice | \$299.00 | \$14.95 | \$313.95 |
| May 17, 2005 | Sony | Expert | \$595.00 | \$41.65 | \$636.65 |
| May 22, 2005 | Toshiba | Expert | \$1,287.00 | \$90.09 | \$1,377.09 |

Test data:

Date, *Type* and *Purchase* columns must be 100% accurate.

Page orientation not specified This printout must show data and fit on a single page

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Mark Scheme **CAMBRIDGE INTERNATIONAL DIPLOMA – 2005**

Syllabus 5192/B

Searching: Type equal Novice

e

| Only | tnese | seven | rows | snoula | be | VISIDI |
|------|-------|-------|------|--------|----|--------|
| | | | | | | |

| Date | Make | Туре | Purchase | Increase | Sale |
|------------------|---------|--------|----------|----------|----------|
| January 24, 2005 | Argus | Novice | \$199.00 | \$9.95 | \$208.95 |
| January 30, 2005 | Canon | Novice | \$399.00 | \$27.93 | \$426.93 |
| February 6, 2005 | Casio | Novice | \$305.00 | \$21.35 | \$326.35 |
| March 19, 2005 | Kodak | Novice | \$345.00 | \$24.15 | \$369.15 |
| March 20, 2005 | Konica | Novice | \$314.00 | \$21.98 | \$335.98 |
| March 26, 2005 | Minolta | Novice | \$399.00 | \$27.93 | \$426.93 |
| May 7, 2005 | Pentax | Novice | \$299.00 | \$14.95 | \$313.95 |

Searching: Date after 01/05/05 and Purchase is greater than 350 Only these three rows should be visible

| Date | Make | Туре | Purchase | Increase | Sale |
|--------------|---------|--------|------------|----------|------------|
| May 2, 2005 | Olympus | Expert | \$1,299.00 | \$90.93 | \$1,389.93 |
| May 17, 2005 | Sony | Expert | \$595.00 | \$41.65 | \$636.65 |
| May 22, 2005 | Toshiba | Expert | \$1,287.00 | \$90.09 | \$1,377.09 |

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