# UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS 

## 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.

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

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## CAMBRIDGE INTERNATIONAL DIPLOMA Standard Level

## MARK SCHEME

## MAXIMUM MARK: 100

PAPER: 5192/A
ICT (Data Analysis)

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Formula:
If increase >=300 then use content of named cell 'five, else used content of named cell 'three* and multiply the content by Purchase price
Alignment not important
Row/Column may not be the same as this example Must display the use of a named range


Formula:
Sale $=$ Purchase + Increase


| Date | Item | Size of item | Purchase | Increase | Sale |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cafe espresso |  |  | =IF(D9>=300,D9*five,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) |
|  | Heater |  |  | =IF(D13>=300,D13*five,D13*three) | =SUM(D13:E13) |
|  | Iron |  |  | =IF(D14>=300,D14*five,D14*three) | =SUM(D14:E14) |
|  | Kettle |  |  | =IF(D15>=300,D15*five,D15*three) | =SUM(D15:E15) |
|  | Microwave |  |  | =IF(D16>=300,D16*five,D16*three) | =SUM(D16:E16) |
|  | Oven |  |  | =IF(D17>=300,D17*five,D17*three) | =SUM(D17:E17) |
|  | Tumble Dryer |  |  | =IF(D183 $=300$, D18*five,D18*three) | =SUM(D18:E18) |
|  | Vacuum Cleaner |  |  | $=1 F(D 19>=300, D 19 * f i v e, D 19 * \text { three })$ | =SUM(D19:E19) |
|  | Washing Machine |  |  | =IF(D20>=300,D20*five,D20*three) | =SUM(D20:E20) |

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

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## Searching

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

| Date | Item | Size of item | Purchase | lncrease | 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

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Searching:
Type equal Novice
Only these seven rows should be visible

| Date | Make | Type | 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 | Type | 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 | $\$ 1,287.00$ | $\$ 90.09$ | $\$ 1,377.09$ |

