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)



Page 1	Mark Scheme	Syllabus
	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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Page 2	Mark Scheme	Syllabus
	CAMBRIDGE INTERNATIONAL DIPLOMA – 2005	5191/A

	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

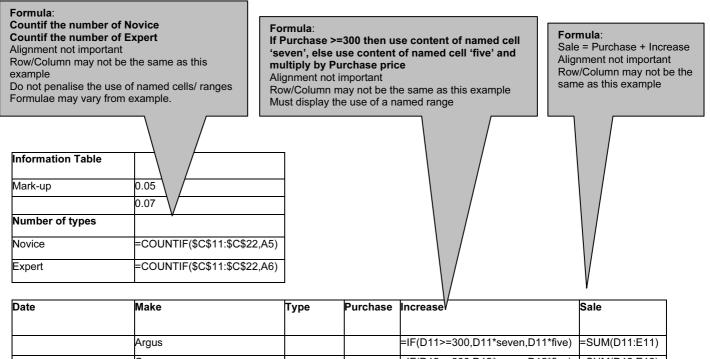
ICT (Data Analysis)



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2005

Page 1	Mark Scheme	Syllabus
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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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Page 2	Mark Scheme	Syllabus
	CAMBRIDGE INTERNATIONAL DIPLOMA – 2005	5192/B

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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