

MARK SCHEME for the October 2007 question paper

<p style="text-align: center;">CAMBRIDGE INTERNATIONAL DIPLOMA IN ICT 5192A Data Analysis, Maximum mark 100</p>
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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.

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 discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Formula:
Countif the number of Full
Countif the number of Upper
Countif the number of Lower
 Alignment not important
 Row/Column may not be the same as this example
 Do not penalise the use of named cells/ranges

Formula:
If Cost >=300 then use content of named cell 'five, else use content of named cell 'three * multiplied by the content of cost price cell
 Alignment not important
 Row/Column may not be the same as this example
 Must display the use of named ranges

Formula:
 Adding Cost and Increase
 Alignment not important
 Row/Column may not be the same as this example

Info		
Mark-up	0.03	
	0.05	
Number of stock items		
Full	=COUNTIF(\$C\$10:\$C\$21,A5)	
Upper	=COUNTIF(\$C\$10:\$C\$21,A6)	
Lower	=COUNTIF(\$C\$10:\$C\$21,A7)	

Date	Item	Body workout	Cost	Increase	Value
	39137 Basic exercise bike			=IF(D10>=300,D10*five,D10*three)	=SUM(D10:E10)
	39171 Cross trainer			=IF(D11>=300,D11*five,D11*three)	=SUM(D11:E11)
	39178 Multi gym			=IF(D12>=300,D12*five,D12*three)	=SUM(D12:E12)
	39187 Treadmill			=IF(D13>=300,D13*five,D13*three)	=SUM(D13:E13)
	39221 Rowing machine			=IF(D14>=300,D14*five,D14*three)	=SUM(D14:E14)
	39222 Trampoline			=IF(D15>=300,D15*five,D15*three)	=SUM(D15:E15)
	39228 Benches			=IF(D16>=300,D16*five,D16*three)	=SUM(D16:E16)
	39235 Punch bags			=IF(D17>=300,D17*five,D17*three)	=SUM(D17:E17)
	39235 Weights			=IF(D18>=300,D18*five,D18*three)	=SUM(D18:E18)
	39240 Elliptical cross trainers			=IF(D19>=300,D19*five,D19*three)	=SUM(D19:E19)
	39250 Step trainer			=IF(D20>=300,D20*five,D20*three)	=SUM(D20:E20)
	39264 Press			=IF(D21>=300,D21*five,D21*three)	=SUM(D21:E21)

Candidate name
 Candidate number
 Centre number

Replication:
 Both 2 formulae correctly replicated

Page orientation landscape
 This printout must show formulae view
 Column width / row height must show all of formulae and labels

Format Mark-up data to % with 0 dp

Check count totals

Information Table
Mark-up

Number of stock items

Full

Upper

Lower

3%
5%
3
4
5

Cross trainer confirms greater than or equal to 300

Date	Item	Body workout	Cost	Increase	Value
February 24, 2007	Basic exercise bike	Lower	\$105.00	\$3.15	\$108.15
March 30, 2007	Cross trainer	Full	\$300.00	\$15.00	\$315.00
April 6, 2007	Multi gym	Full	\$478.00	\$23.90	\$501.90
April 15, 2007	Treadmill	Lower	\$894.00	\$44.70	\$938.70
May 19, 2007	Rowing machine	Full	\$545.00	\$27.25	\$572.25
May 20, 2007	Trampoline	Lower	\$369.00	\$18.45	\$387.45
May 26, 2007	Benches	Upper	\$157.00	\$4.71	\$161.71
June 2, 2007	Punch bags	Upper	\$294.00	\$8.82	\$302.82
June 2, 2007	Weights	Upper	\$65.00	\$1.95	\$66.95
June 7, 2007	Elliptical cross trainers	Lower	\$400.00	\$20.00	\$420.00
June 17, 2007	Step trainer	Lower	\$25.00	\$0.75	\$25.75
July 1, 2007	Press	Upper	\$90.00	\$2.70	\$92.70

Test data:
First 4 columns must be 100% accurate
Date must contain month in words but format may be different to this.

3 columns formatted to display \$ sign and set to 2 dp

Date
Only accept month in words

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

Candidate name
Candidate number
Centre number

Searching:
Body workout equals Full
 Only these three rows should be visible

Date	Item	Body workout	Cost	Increase	Value
March 30, 2007	Cross trainer	Full	\$300.00	\$15.00	\$315.00
April 6, 2007	Multi gym	Full	\$478.00	\$23.90	\$501.90
May 19, 2007	Rowing machine	Full	\$545.00	\$27.25	\$572.25

Searching:
Date between 1 May 2007 and 10 June 2007 and
Cost is greater than 400
 Only one row should be visible

Date	Item	Body workout	Cost	Increase	Value
May 19, 2007	Rowing machine	Full	\$545.00	\$27.25	\$572.25

Candidate name
 Candidate number
 Centre number