

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International Diploma Standard Level

MARK SCHEME for the 2004 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.

2004

CAMBRIDGE INTERNATIONAL DIPLOMA
Standard Level

MARK SCHEME

MAXIMUM MARK: 100

PAPER: 5192/A
ICT (Data Analysis)

Formula:
 If Order Value >125 then use content of named cell 'eight', else use content of named cell 'five' * the content by Order Value
 Alignment not important
 Row/Column may not be the same as this example
 Must display the use of a named range

Formula:
 Order-Discount Value

Formula:
 Count the number of orders
 Alignment not important
 Row/Column may not be the same as this example
 Do not penalise the use of named cells/ranges

Date	Company	Description	Order Value	Discount Value	Total
		Stokers		=IF(D5>125,eight*D5,five*D5)	=D5-E5
		Caprossi		=IF(D6>125,eight*D6,five*D6)	=D6-E6
		Aztec Supplies		=IF(D7>125,eight*D7,five*D7)	=D7-E7
		Kwik Mart		=IF(D8>125,eight*D8,five*D8)	=D8-E8
		Caprossi		=IF(D9>125,eight*D9,five*D9)	=D9-E9
		Russell Card		=IF(D10>125,eight*D10,five*D10)	=D10-E10
		Aztec Supplies		=IF(D11>125,eight*D11,five*D11)	=D11-E11
		Kwik Mart		=IF(D12>125,eight*D12,five*D12)	=D12-E12
		Russell Card		=IF(D13>125,eight*D13,five*D13)	=D13-E13
		Cooper Briggs		=IF(D14>125,eight*D14,five*D14)	=D14-E14
		Kwik Mart		=IF(D15>125,eight*D15,five*D15)	=D15-E15
		Stokers		=IF(D16>125,eight*D16,five*D16)	=D16-E16

Information Table		
Discount		0.05 0.08
Number of orders	=COUNTA(B5:B16)	

Replication:
 Both formulae correctly replicated

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

Format the results in the Order Value, Discount Value and Total columns to 2dp/currency displaying the \$

Date	Company	Description	Order Value	Discount Value	Total
15 June 2004	Stokers	Plastic Pockets	\$912.50	\$73.00	\$839.50
15 June 2004	Caprossi	Assorted Pens	\$125.00	\$6.25	\$118.75
28 June 2004	Aztec Supplies	A4 Ring Binders	\$375.00	\$30.00	\$345.00
01 July 2004	Kwik Mart	Notebooks	\$150.00	\$12.00	\$138.00
01 July 2004	Caprossi	Rubbers	\$30.00	\$1.50	\$28.50
01 July 2004	Russell Card	Cases	\$213.75	\$17.10	\$196.65
12 July 2004	Aztec Supplies	Leaver Arch Files	\$337.50	\$27.00	\$310.50
12 July 2004	Kwik Mart	Keyrings	\$148.50	\$11.88	\$136.62
23 July 2004	Russell Card	A4 Ruled Paper	\$437.50	\$35.00	\$402.50
08 August 2004	Cooper Briggs	Assorted Cards	\$275.00	\$22.00	\$253.00
16 August 2004	Kwik Mart	Sticky Tape	\$80.00	\$4.00	\$76.00
08 September 2004	Stokers	File Separators	\$375.00	\$30.00	\$345.00

Information Table		
Discount		5% 8%
Number of orders	12	

Test data:
 First 4 columns must be 100% accurate

Format Discount data to % with 0 dp
Check the result of the count

Searching:
Company equal Aztec Supplies or Stokers and the
Order Value greater than 345
Only these three rows should be visible

Date	Company	Description	Order Value	Discount Value	Total
15 June 2004	Stokers	Plastic Pockets	\$912.50	\$73.00	\$839.50
28 June 2004	Aztec Supplies	A4 Ring Binders	\$375.00	\$30.00	\$345.00
08 September 2004	Stokers	File Separators	\$375.00	\$30.00	\$345.00

2004

CAMBRIDGE INTERNATIONAL DIPLOMA
Standard Level

MARK SCHEME

MAXIMUM MARK: 100

PAPER: 5192/B
ICT (Data Analysis)

Formula:
Countif – number of treadmills in range
 Alignment not important
 Row/Column may not be the same as this example

Formula:
IF Purchase price > 500 then Purchase price multiplied by content of named cell 'ten' else purchase price multiplied by content of named cell 'five'
 Alignment not important
 Row/Column may not be the same as this example
 Must contain the use of named cells

Formula:
 Retail price =
 Purchase price +
 Mark-up price

Information Table					
Mark-up	0.05		0.1		
Number of stock items	Treadmills				
	=COUNTIF(\$B\$9:\$B\$20,"Treadmill")				
Date	Equipment	Type	Purchase price	Mark-up price	Retail price
	Treadmill			=IF(D9>500,D9*ten,D9*five)	=SUM(D9:E9)
	Treadmill			=IF(D10>500,D10*ten,D10*five)	=SUM(D10:E10)
	Exercise bike			=IF(D11>500,D11*ten,D11*five)	=SUM(D11:E11)
	Treadmill			=IF(D12>500,D12*ten,D12*five)	=SUM(D12:E12)
	Treadmill			=IF(D13>500,D13*ten,D13*five)	=SUM(D13:E13)
	Exercise bike			=IF(D14>500,D14*ten,D14*five)	=SUM(D14:E14)
	Treadmill			=IF(D15>500,D15*ten,D15*five)	=SUM(D15:E15)
	Exercise bike			=IF(D16>500,D16*ten,D16*five)	=SUM(D16:E16)
	Treadmill			=IF(D17>500,D17*ten,D17*five)	=SUM(D17:E17)
	Treadmill			=IF(D18>500,D18*ten,D18*five)	=SUM(D18:E18)
	Exercise bike			=IF(D19>500,D19*ten,D19*five)	=SUM(D19:E19)
	Exercise bike			=IF(D20>500,D20*ten,D20*five)	=SUM(D20:E20)

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

Replication:
 Both formulae correctly replicated

Format Mark-up as % 0 dp

Format the results in the Purchase price, Mark-up price and Retail price columns to 2dp displaying \$

Information Table					
Mark-up	5%	10%			
Number of stock items	Treadmills				
	7				
Date	Equipment	Type	Purchase price	Mark-up price	Retail price
June 24, 2004	Treadmill	Programmable	\$999.00	\$99.90	\$1,098.90
June 30, 2004	Treadmill	Pulse controlled	\$2,250.00	\$225.00	\$2,475.00
July 6, 2004	Exercise bike	Fitness	\$350.00	\$17.50	\$367.50
July 15, 2004	Treadmill	Manual	\$495.00	\$24.75	\$519.75
July 19, 2004	Treadmill	Programmable folding	\$1,870.00	\$187.00	\$2,057.00
July 20, 2004	Exercise bike	Recumbent	\$570.00	\$57.00	\$627.00
July 26, 2004	Treadmill	Electronic foldaway	\$2,485.00	\$248.50	\$2,733.50
August 2, 2004	Exercise bike	Magnetic	\$749.00	\$74.90	\$823.90
August 2, 2004	Treadmill	Electronic foldaway	\$729.00	\$72.90	\$801.90
August 7, 2004	Treadmill	Programmable	\$3,195.00	\$319.50	\$3,514.50
August 17, 2004	Exercise bike	Swing folding	\$599.00	\$59.90	\$658.90
August 22, 2004	Exercise bike	Magnetic	\$279.00	\$13.95	\$292.95

Test data:
First 3 columns must be 100% accurate

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

Date	Equipment	Type	Purchase price	Mark-up price	Retail price
July 19, 2004	Treadmill	Programmable folding	\$1,870.00	\$187.00	\$2,057.00
July 26, 2004	Treadmill	Electronic foldaway	\$2,485.00	\$248.50	\$2,733.50
August 2, 2004	Treadmill	Electronic foldaway	\$729.00	\$72.90	\$801.90
August 17, 2004	Exercise bike	Swing folding	\$599.00	\$59.90	\$658.90

Searching:
Type contains *foldaway* or *folding*
 Only these four rows should be visible