

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International Diploma Advanced Level

MARK SCHEME for the 2005 question paper

CAMBRIDGE INTERNATIONAL DIPLOMA IN ICT

5202 **Advanced Spreadsheets, maximum mark 100**

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UNIVERSITY of CAMBRIDGE
International Examinations

2005

CAMBRIDGE INTERNATIONAL DIPLOMA

Advanced Level

MARK SCHEME

MAXIMUM MARK: 100

PAPER: 5202/A

ICT (Advanced Spreadsheets)

Page 1	Mark Scheme	Syllabus
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Large Engine Cars – Three Months Overdue

Registration	DatePaid	EngineSize	Basic	MonthsLate	Penalty	Charge
O170VI	05/05/2005	2200	7.50	3	11.25	18.75
L379LP	06/05/2005	3200	10.00	3	15.00	25.00
E769LP	06/05/2005	2700	7.50	3	11.25	18.75
C888JD	08/05/2005	2200	7.50	3	11.25	18.75
I119PZ	08/05/2005	2700	7.50	3	11.25	18.75
D918AF	10/05/2005	2300	7.50	3	11.25	18.75
S329MN	11/05/2005	2400	7.50	3	11.25	18.75
U394NL	12/05/2005	2800	7.50	3	11.25	18.75
Z490LM	14/05/2005	2700	7.50	3	11.25	18.75
Y763KX	17/05/2005	3100	10.00	3	15.00	25.00
G205UU	23/05/2005	3100	10.00	3	15.00	25.00
E455VP	23/05/2005	2100	7.50	3	11.25	18.75
Y532AR	28/05/2005	2100	7.50	3	11.25	18.75

John Smith 1 January 2005

Sorted by DatePaid (asc) then charge (desc).

Only enginesize>2000 and 3 months late items shown.

Values calculated as shown.

Numbers to 2dp as shown

There may be extra columns used fo calculations.

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Formulae used

Basic

=VLOOKUP(C10,assa5chg.csv!\$A\$2:\$B\$29,2)
 =VLOOKUP(C11,assa5chg.csv!\$A\$2:\$B\$29,2)
 =VLOOKUP(C15,assa5chg.csv!\$A\$2:\$B\$29,2)
 =VLOOKUP(C40,assa5chg.csv!\$A\$2:\$B\$29,2)
 =VLOOKUP(C44,assa5chg.csv!\$A\$2:\$B\$29,2)
 =VLOOKUP(C51,assa5chg.csv!\$A\$2:\$B\$29,2)
 =VLOOKUP(C52,assa5chg.csv!\$A\$2:\$B\$29,2)
 =VLOOKUP(C53,assa5chg.csv!\$A\$2:\$B\$29,2)
 =VLOOKUP(C56,assa5chg.csv!\$A\$2:\$B\$29,2)
 =VLOOKUP(C76,assa5chg.csv!\$A\$2:\$B\$29,2)
 =VLOOKUP(C80,assa5chg.csv!\$A\$2:\$B\$29,2)
 =VLOOKUP(C87,assa5chg.csv!\$A\$2:\$B\$29,2)
 =VLOOKUP(C99,assa5chg.csv!\$A\$2:\$B\$29,2)

MonthsLate

=INT((B10-calcdate)/30)
 =INT((B11-calcdate)/30)
 =INT((B15-calcdate)/30)
 =INT((B40-calcdate)/30)
 =INT((B44-calcdate)/30)
 =INT((B51-calcdate)/30)
 =INT((B52-calcdate)/30)
 =INT((B53-calcdate)/30)
 =INT((B56-calcdate)/30)
 =INT((B76-calcdate)/30)
 =INT((B80-calcdate)/30)
 =INT((B87-calcdate)/30)
 =INT((B99-calcdate)/30)

Penalty

=IF(E10=1,One*D10,IF(E10=2,Two*D10,Three*D10))
 =IF(E11=1,One*D11,IF(E11=2,Two*D11,Three*D11))
 =IF(E15=1,One*D15,IF(E15=2,Two*D15,Three*D15))
 =IF(E40=1,One*D40,IF(E40=2,Two*D40,Three*D40))
 =IF(E44=1,One*D44,IF(E44=2,Two*D44,Three*D44))
 =IF(E51=1,One*D51,IF(E51=2,Two*D51,Three*D51))
 =IF(E52=1,One*D52,IF(E52=2,Two*D52,Three*D52))
 =IF(E53=1,One*D53,IF(E53=2,Two*D53,Three*D53))
 =IF(E56=1,One*D56,IF(E56=2,Two*D56,Three*D56))
 =IF(E76=1,One*D76,IF(E76=2,Two*D76,Three*D76))
 =IF(E80=1,One*D80,IF(E80=2,Two*D80,Three*D80))
 =IF(E87=1,One*D87,IF(E87=2,Two*D87,Three*D87))
 =IF(E99=1,One*D99,IF(E99=2,Two*D99,Three*D99))

Charge

=F10+D10
 =F11+D11
 =F15+D15
 =F40+D40
 =F44+D44
 =F51+D51
 =F52+D52
 =F53+D53
 =F56+D56
 =F76+D76
 =F80+D80
 =F87+D87
 =F99+D99

John Smith 1 January 2005

Basic, MonthsLate Penalty and Charge columns shown
 (formula in MonthsLate column may be produced from more than one column)
Basic formula must refer to assa5chg file (may be named range in same workbook)
Penalty and *MonthsLate* refer to named cells

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Count of Debts by Engine Size

MonthsLate	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
1	1	3	1	4	1	4	1	2	1	1	1
2	1		1			1		1	2	1	4
3	1	2	2	2		3	2	4	1	2	2

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Counts and labels as shown (but accept tables with the zero values shown or missing at 1100, 1200 etc)
May show overall totals

2005

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Page 1	Mark Scheme	Syllabus
	CAMBRIDGE INTERNATIONAL DIPLOMA – 2005	5202/B

Short Journeys – Route 47

Date	Route	Area	StartPoint	EndPoint	StartTime	FinishTime	JourneyTime	Fare
07-Feb-05	47	Riverdale	280	287	05:52	06:21	00:29	0.75
25-Jan-05	47	Riverdale	280	285	16:59	17:25	00:26	0.75
18-Jan-05	47	Riverdale	280	289	18:05	18:40	00:35	0.75
19-Jan-05	47	Riverdale	282	287	15:51	16:24	00:33	0.75

Only items as shown
Sorted ascending order of startpoint (3 x 280 then 1 x 282) then in ascending order of starttime
Selection = route 47 and fare = 0.75 only

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Formulae used

Area	JourneyTime	Fare
=VLOOKUP(B23,assb5rts.csv!\$A\$2:\$B\$8,2)	=G23-F23	=IF(MID(D23,2,1)=MID(E23,2,1),Short,Standard)
=VLOOKUP(B27,assb5rts.csv!\$A\$2:\$B\$8,2)	=G27-F27	=IF(MID(D27,2,1)=MID(E27,2,1),Short,Standard)
=VLOOKUP(B32,assb5rts.csv!\$A\$2:\$B\$8,2)	=G32-F32	=IF(MID(D32,2,1)=MID(E32,2,1),Short,Standard)
=VLOOKUP(B38,assb5rts.csv!\$A\$2:\$B\$8,2)	=G38-F38	=IF(MID(D38,2,1)=MID(E38,2,1),Short,Standard)

Only 3 columns shown
(May be more columns if extra columns used to calculate, but should only be ones showing formulas, not any showing values)
Formulae shown
Area formula must refer to file assb5rts.csv (or range in workbook)
Fare formula must use named cells

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Page 2	Mark Scheme	Syllabus
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Average Journey Times

Date	32	45	47	95	207	260	266
01-Feb-05		00:52		01:25			
02-Feb-05		00:51			00:50		01:03
03-Feb-05	00:42	00:55	00:28	01:23			00:56
04-Feb-05				01:21	00:54	00:46	
05-Feb-05	00:42				00:57		
06-Feb-05		00:51	00:25		00:53		01:02
07-Feb-05			00:30				
08-Feb-05			00:32	01:25			01:03
09-Feb-05				01:18			
10-Feb-05					00:53		
11-Feb-05				01:24		00:47	
13-Feb-05	00:45						
14-Feb-05			00:27			00:43	
15-Feb-05			00:34		00:54		00:59
16-Feb-05			00:32	01:20			
17-Feb-05		00:54		01:20			
19-Feb-05					00:56		
20-Feb-05	00:44		00:31				
21-Feb-05				01:18			00:56
22-Feb-05		00:53				00:43	
27-Feb-05							01:03

John Smith 1 January 2005

Data as shown
 Only February dates
 Average journey time in
 hours::minutes
 Pivot table may show overall
 values as well.