

Cambridge Assessment International Education

Cambridge International Advanced Subsidiary and Advanced Level

INFORMATION TECHNOLOGY

9626/02

Paper 2 Practical

March 2018

MARK SCHEME
Maximum Mark: 110

Published

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, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

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Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always whole marks (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit
 is given for valid answers which go beyond the scope of the syllabus and mark scheme,
 referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

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Evidence document

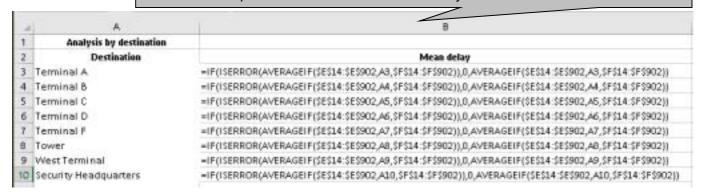
Evidence 1

One case error on terminal B	1 mark
not critical as data would still be meaningful	1 mark
although not professional	1 mark
Error in cell B4 says Terminal D not C	1 mark
this is a critical error as incorrect data would be returned	1 mark

	А	В	С	Both errors corrected	1 mark
1	Destination code	Destinatio	n	case on Terminal and 2 x Terminal C	
2	Α	Terminal A	Δ		
3	В	Terminal 8	3		
4	С	Terminal	0		
5	D	Terminal ()		
6	F	Terminal F	=		
7	W	West term	ninal		
8	Т	Tower			
9	Х	Security h	eadquarte	rs	

Function	AVERAGEIF() \$E\$14:\$E\$902	1 mark 1 mark
	Absolute cell referencing or named range used	1 mark
	,A3	1 mark
	Relative cell reference	1 mark
	,\$F\$14:\$F\$902)	1 mark
	Absolute cell referencing or named range used	1 mark
Error trap	=IF()	1 mark
	ISERROR()	1 mark
	AVERAGEIF(\$E\$14:\$E\$902,A3,\$F\$14:\$F\$902) allow f/t	1 mark
	 	1 mark
	,AVERAGEIF(\$E\$14:\$E\$902,A3,\$F\$14:\$F\$902) allow f/t	1 mark
	Replication correct for all Mean delay	1 mark

Evidence 2



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```
Date
                                                    DATE()
                                                                                                                                                           1 mark
                                                    MID()
                                                                                                                                                           1 mark
                                                    A14
                                                                                                                                                           1 mark
                                                    ,5
                                                                                                                                                           1 mark
                                                    ,2
                                                                                                                                                           1 mark
                                                    +100
                                                                                                                                                           1 mark
                                                    ,MID()
                                                                                                                                                           1 mark
                                                    A14
                                                                                                                                                           1 mark
                                                    ,3
                                                                                                                                                           1 mark
                                                    ,2
                                                                                                                                                           1 mark
                                                    ,LEFT()
                                                                                                                                                           1 mark
                                                    A14,2
                                                                                                                                                           1 mark
13.
                           Date
                                                                                                         Destination
14 =DATE|MID|A14,5,2)+100,MID(A14,3,2),LEFT(A14,2)|
                                                        =VLOOKUP(MID(A14,11,1),'D/;CIE\9626\2018_03_9626_02\Worked\Dest_worked.xlsx(Dest_worked1$A$2:$8$9.2.FALSE)
15 =DATE[MID[A15,5,2]+100,MID[A15,3,2],LEFT[A15,2]]
                                                        =VLODKUP(MID(A15,11,1),*D:fcIt*)9626\2018_03_9626_02\Worked\[Dest_worked.xlox]Dest_worked1$A$2:$B$9,2.FALSE)
16 -DATE(MIDIA16.5.2)+100.MID(A16.3.2) LEFT(A16.2)
                                                        -VLOOKUP(MID(A16,11,1), 'D.'CIE',9626',2018 03 9626 02'Worked', burk worked shallDest worked SAS2:5859.2 FALSE)
17 = DATEIMIDIA17.5.23+100.MID(A17.3.2).LEFT(A17.2)(
                                                        =VLOOKUP()VIID(A17,11,1), 'D/CIE\9626\2018_03_9626_02\Worked\[Dest_worked.xkxi]Dest_worked1$A$2:$859.2.FALSE)
18 = DATE MID(A18.5,2)+100 MID(A18.3,2) LEFT(A18.2)(
                                                        =VLODKUP(MID(A18,11,1)/D/CIF\9626\2018_03_9626_02\Worked\Dest_worked.slxx(Dest_worked1$A$2:$B$9,2.FALSE)
19 -DATE[MID[A19,5,2]+100,MID[A19,3,2],LEFT[A19,2]]
                                                        =VLOOKUP()MID(A19,11,1], 'D:\CIE\9626\2018_03_9626_02\Worked\(Dest_worked.sbx)Dest_worked1$A$2:$859,2,FAL5E)
20 = DATE[MID[A20,5,2)+100,MID(A20,3,2],LEFT(A20,2)]
                                                        =VLOOKUP(MID(A20,11,1),*D:/CIE\9626\2018_03_9626_02\Worked\[Dest_worked.xlsx|]Dest_worked1$A$2:$8$9,2;FALSE)
21 =DATE[MID(A21,5,2)+100,MID(A21,3,2),LEFT(A21,2)]
                                                        =VLOOKUP()MID(A21,11,1], 'D:\fc1E\9626\2018_03_9626_02\Worked\[Dest_worked.xkxi]Dest_worked1\$A$2:\$B$9,2.FALSE
22 -DATE[MID[A22,5,2)+100,MID(A22,3,2],LEFT(A22,2)]
                                                        =VLOOKUP(MID(A22,11,1),*D:*(CIE\9626\2018_03_9626_02\Worked\[Dest_worked.stxt]Dest_worked1$A$2:$8$9,2;FALSE)
23 =DATE[MID]A23,5,2)+100,MID(A23,3,2),LEFT(A23,2)]
                                                        ~VLOOKUP(MID(A23,11,1).*D/CIE\9626\2018_03_9626_02\Worked\[Dest_worked.xbx\]Dest_worked1$A$2:$859.2.FALSE)
24 =DATE[MID[A24,5,2)+100,MID(A24,3,2],LEFT(A24,2)]
                                                        =VLOOKUP(MID(A24,11,1),*D:/;CIE\9626\2018_03_9626_02\Worked\[Dest_worked.xlox[Dest_worked1$A$2$B$9.2.FALSE]
25 =DATE[MID[A25,5,2]+100,MID[A25,3,2],LEFT[A25,2]]
                                                        =VLOOKUP()VID(A25,11,1),*D:\CIE\9626\2018_03_9626_02\Worked\(Dest_worked.shx)Dest_worked1$A$2:$8$9,2,FAL5E)
26 -DATEIMIDIA26.5.2)+100.MIDIA26.3.21.LEFT(A26.2)1
                                                        ~VLOCKUP()VIID(A26,11,1).*D/CIE\9626\2018_03_9626_02\Worked\[Dest_worked.xbx\]Dest_worked\[Past_worked\]SA$2:5859.2.FALSE\[Past_worked.xbx\]
27 = DATE MIDIA27.5.2)+100 MIDIA27.3.2 (LEFT)A27.2 (I
                                                        =VLOOKUP0VID(A27,11.1), DACIE\9626\2018_03_9626_02\Worked\Dest_worked.xkx(Dest_worked1$A$2:$859.2.FALSE)
                                                        =VLOOKUP(WID(A28,11,1),*D:\CIE\9626\2018_03_9626_02\Worked\Dest_worked.six(Dest_worked1$A$2-$8$9.2.FALSE)
28 = DATE MID(A28,5,2)+100 MID(A28,3,2) LEFT(A28,2)
29 - DATEIMID(A29.5,2)+100,MID(A29.3,2),LEFT(A29,2)(
                                                        -VLOOKUP(MID(A29,11,1),*D:*(CIE\9626\2018_03_9626_02\Worked\[Dest_worked.xlsx]\Dest_worked\]$A$2:$8$9,2;FALSE)
30 =DATE[MID]A30,5,2)+100,MID[A30,3,2],LEFT[A30,2]]
                                                        =VLOOKUP(MID(A30,11,1),'D:\CIE\9626\2018_03_9626_02\Worked\[Dest_worked.xkxi(Dest_worked1$A$2:$8$9,2,FALSE)
```

```
      Destination = VLOOKUP()
      1 mark

      MID(A14
      1 mark

      ,11
      1 mark

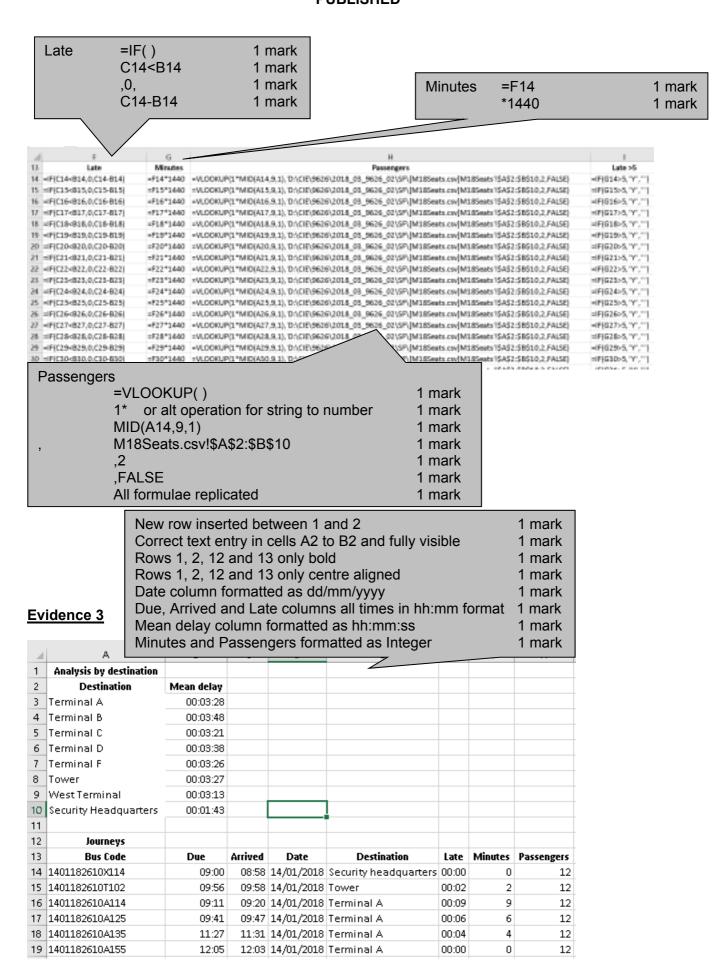
      ,1)
      1 mark

      ,filename.xlsx!$A$2:$B$9
      (file name will differ)
      1 mark

      ,2
      1 mark

      ,FALSE)
      1 mark
```

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© UCLES 2018 Page 5 of 8

Evidence 4

Destination names as row headings	1 mark
Dates as column headings	1 mark
Sum as mathematical operation	1 mark
Correct sum values	1 mark
Correct totals for each date	1 mark
No totals for each destination	1 mark

Analysis of late buses for 14th to 20th January 2018

Total number of minutes late for each destination on each date.

	Date						
Destination	14/01/201E	15/01/2008	16/01/2018	17/01/2008	18/01/2008	19/01/2018	20/01/2018
Security Headquarters	0	7	4	0	1	0	0
Terminal A	47	61	35	73	54	74	- 68
Terminal 8	27	42	34	51	23	42	47
Terminal C	52	57	57	29	60	58	63
Terminal D	45	48	75	44	70	63	62
Terminal F	199	203	210	156	20.2	214	179
West Terminal	35	26	57	29	13	27	80
Daily Total	403	444	472	362	433	476	459

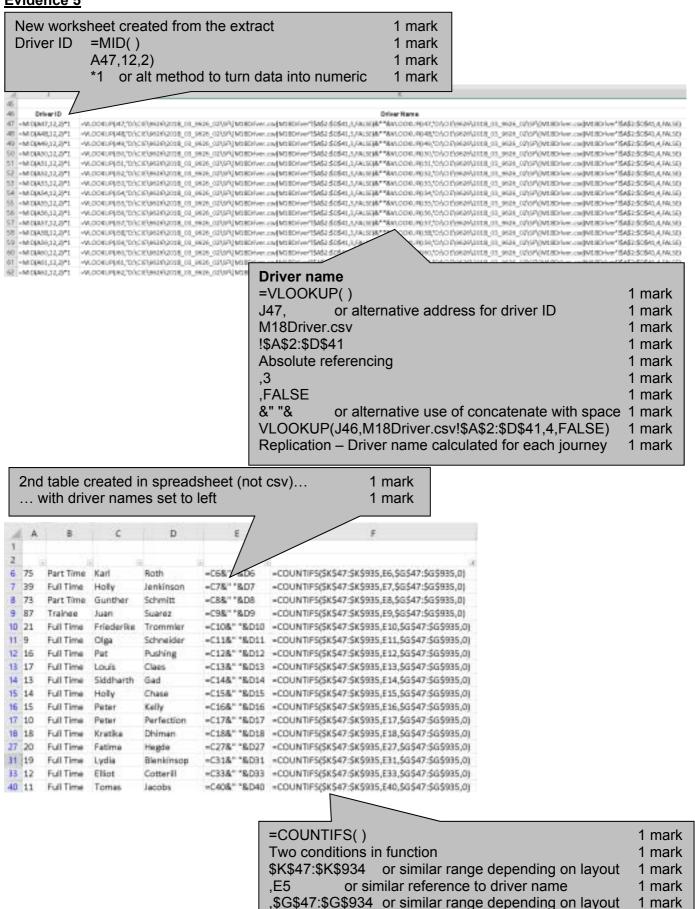
Chart to show the average delay time to each destination



 Appropriate chart type	1 mark
Appropriate chart title	1 mark
Appropriate axis titles	1 mark
Correct values	1 mark
Value axis intervals set to increments of 1 minute/ 30	
seconds	1 mark

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Evidence 5



reference to 0 minutes late

1 mark

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.0

Appropriate title with candidate details	1 mark
Layout as shown including column alignments	1 mark
Data sorted into ascending order of on-time or	
early journeys	1 mark
Correct results	1 mark
Exported as Driver_ZZ999_9999.rtf	1 mark
The name of this week's best driver is: Tomas Jacobs	1 mark

Evidence 6

Drivers with fewest delays for this week

Driver	Number of journeys
Karl Roth	2
Holly Jenkinson	2
Gunther Schmitt	3
Juan Suarez	4
Friederike Trommle	er 5
Olga Schneider	13
Pat Pushing	16
Louis Claes	17
Siddharth Gad	17
Holly Chase	18
Peter Kelly	23
Peter Perfection	23
Kratika Dhiman	23
Fatima Hegde	25
Lydia Blenkinsop	25
Elliot Cotterill	26
Tomas Jacobs	31

The name of this week's best driver is: Tomas Jacobs

Evidence 7

A formula can contain a mathematical operator (example: F4*)	1 mark
A formula can contain a function (example: IF or RANDBETWEEN)	1 mark
A function has a predefined name (example: IF or RANDBETWEEN)	1 mark
A function is a predefined operation built in spreadsheet (example: IF or RANDBETWEEN)	1 mark
A function has parameters passed to it, formula does not (example: condition>60)	1 mark
A function can contain decision making (example: different responses from IF condition)	1 mark

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