APPLIED INFORMATION & COMMUNICATION TECHNOLOGY   **9713/02**

Paper 2 Practical Test A   **May/June 2017**

MARK SCHEME

Maximum Mark: 120

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 will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2017 series for most Cambridge IGCSE®, Cambridge International A and AS Level and Cambridge Pre-U components, and some Cambridge O Level components.

This document consists of **20** printed pages.

Evidence Document

Evidence document	
Header – name and numbers	1 mark

Q2

Formatting

5 rows inserted	1 mark
Row 1	
Cells A1-H1 Merged	1 mark
Cansaulim Beach Hotel 100% in sans serif font	1 mark
White with black background	1 mark
Row 2	
Grey background, sans serif & text 100% & centre aligned	1 mark
Row 3	
Correct text bold	1 mark
4 pairs merged and centre aligned	1 mark
Gridlines on rows 3 and 4	1 mark
Row 5	
<=½ height of row 6	1 mark
Row 6	
Bold, left aligned text	1 mark

Q21

Chart	
Chart	
Search - Average delay > 4	2 marks
Correct count values 13, 16, 9	2 marks
Correct average values 5.4, 4.9, 4.4	2 marks
Chart type	2 marks
Category Axis	
Route no. or Destination names in full	1 mark
Meaningful and appropriate axis label	1 mark
Value Axes	
2 shown	1 mark
Appropriate axis labels (1 mark / label)	2 marks
Average delay axis recalibrated to full minutes	2 marks
Chart title – Meaningful and appropriate	1 mark
Chart title – of appropriate size	1 mark
Series labels – both correct & appropriate	2 marks

Journeys with long delays -
A comparison of the average delay and the number of journeys taken
on each route

Route number from the hotel to the destination.

Number of journeys   Average delay time
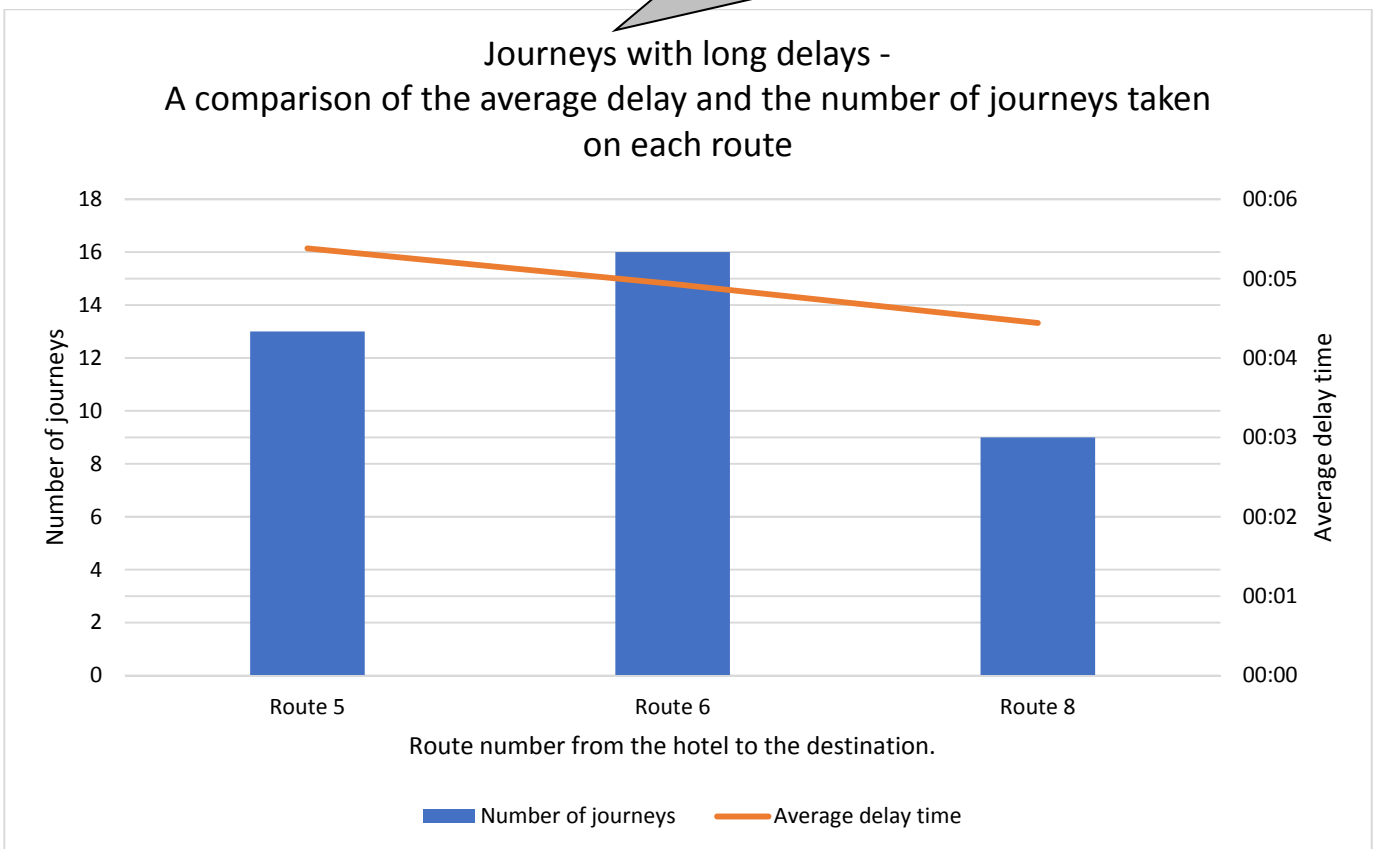
Q25

Data validation		
Decimal value selected		1 mark
Between	>=0.005	1 mark
0.005	AND	1 mark
0.05	<=0.05	1 mark

Data validation	
Appropriate input message shown	1 mark

Data Validation

Settings   Input Message   Error Alert

☑ Show error alert after invalid data is entered

When user enters invalid data, show this error alert:

Style:
Stop

Title:
Invalid data entry

Error message:
Please enter a new value between 0.005 and 0.05 in this cell.

Clear All   OK   Cancel

Data validation
Appropriate error message shown   1 mark
Error message includes 0.005 and 0.05   1 mark

Formulae printed by A Candidate ZZ999 9999

	A	B	C	D	E	F
1						Cansaulim B
2						Mini-bus services
3	Average delay		Longest delay		Number of delays	
4	=ROUND(AVERAGEIF(E7:E132,">0"),0)		=MAX(E7:E132)		=COUNTIF(E7:E132,">0")	
6	Bus Code	Du	Arrived	Late	Minutes	Bus Route
7	2610A1961G	0.4...666666667	0.494444...4444	=IF(B7>C7,0,C7-B7)	=MINUTE...	=MID(A7,9,1)
				=IF(B11>C11,0,C11-B11)		
12			414583333333333	=IF(B12>C12,0,C12-B12)	=MINUTE(D12)	=MID(A12,9,1)
13	2610A1351V	0.477083333333333	0.477083333333333	=IF(B13>C13,0,C13-B13)	=MINUTE(D13)	=MID(A13,9,1)
14	2610A1141V	0.382638888888889	0.382638888888889	=IF(B14>C14,0,C14-B14)	=MINUTE(D14)	=MID(A14,9,1)
15	2610A1641V	0.509722222222222	0.509722222222222	=IF(B15>C15,0,C15-B15)	=MINUTE(D15)	=MID(A15,9,1)
16	2620T1162K	0.460416666666667	0.465277777777778	=IF(B16>C16,0,C16-B16)	=MINUTE(D16)	=MID(A16,9,1)
17	2620T1912K	0.485416666666667	0.490277777777778	=IF(B17>C17,0,C17-B17)	=MINUTE(D17)	=MID(A17,9,1)
18	2620T1272G	0.479861111111111	0.484027777777778	=IF(B18>C18,0,C18-B18)	=MINUTE(D18)	=MID(A18,9,1)
19	2620T1472V	0.493055555555556	0.497222222222222	=IF(B19>C19,0,C19-B19)	=MINUTE(D19)	=MID(A19,9,1)
20	2620T1342K	0.493055555555556	0.496527777777778	=IF(B20>C20,0,C20-B20)	=MINUTE(D20)	=MID(A20,9,1)

Avgerage delay

=ROUND(… ,0)	1 mark
AVERAGEIF ()	1 mark
E7:E132	1 mark
">0" must be in speech marks	1 mark

Longest

=MAX ()	1 mark
E7:E132	1 mark

Count

=COUNTIF()	1 mark
E7:E132	1 mark
,">0"	1 mark

Formulae printed by A Candidate ZZ999 9999

	G	H
1	**each Hotel**	
2	**delay analysis**	
3	**Number of long delays**	
4	=COUNTIF(E7:E132,">=4")	
6	**Capacity**	
7	=VLOOKUP(F7*1,j17	,j17destination.csv!$A$1:$B$7,2,0)
8	=VLOOKUP(F8*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A8,5,1),j17destination.csv!$A$1:$B$7,2,0)
9	=VLOOKUP(F9*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A9,5,1),j17destination.csv!$A$1:$B$7,2,0)
10	=VLOOKUP(F10*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A10,5,1),j17destination.csv!$A$1:$B$7,2,0)
11	=VLOOKUP(F11*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A11,5,1),j17destination.csv!$A$1:$B$7,2,0)
12	=VLOOKUP(F12*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A12,5,1),j17destination.csv!$A$1:$B$7,2,0)
13	=VLOOKUP(F13*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A13,5,1),j17destination.csv!$A$1:$B$7,2,0)
14	=VLOOKUP(F14*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A14,5,1),j17destination.csv!$A$1:$B$7,2,0)
15	=VLOOKUP(F15*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A15,5,1),j17destination.csv!$A$1:$B$7,2,0)
16	=VLOOKUP(F16*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A16,5,1),j17destination.csv!$A$1:$B$7,2,0)
17	=VLOOKUP(F17*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A17,5,1),j17destination.csv!$A$1:$B$7,2,0)
18	=VLOOKUP(F18*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A18,5,1),j17destination.csv!$A$1:$B$7,2,0)
19	=VLOOKUP(F19*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A19,5,1),j17destination.csv!$A$1:$B$7,2,0)
20	=VLOOKUP(F20*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A20,5,1),j17destination.csv!$A$1:$B$7,2,0)

Long delays
=COUNTIF(E7:E132,">=4")   1 mark

Formulae printed by A Candidate ZZ999 9999

	A	B	C	D	E	F
1					Cansaulim B	
2					Mini-bus services	
3	Average delay		Longest delay		Number of delays	
4	=ROUND(AVERAGEIF(E7:E132,">0"),0)		=MAX(E7:E132)		=COUNTIF(E7:E132,">0")	
6	Bus Code	Due	Arrived	Late	Minutes	Bus Route
7	2610A1961G	0.491666666666667	0.494444444444444	=IF(B7>C7,0,C7-B7)	=MINUTE(D7)	=MID(A7,9,1)
8	2610A1821G	0.402083333333333	0.4048611111111	=IF(B8>C8,0,C8-B8)	=MINUTE(D8)	=MID(A8,9,1)
9	2610A1251V	0.403472222222222	0.40555555?56	=IF(B9>C9,0,C9-B9)	=MINUTE(D9)	=MID(A9,9,1)
10	2610A1551G	0.503472222222222	0.504??1111	=IF(B10>C10,0,C10-B10)	=MINUTE(D10)	=MID(A10,9,1)
11	2610A1861V			=IF(B11>C11,0,C11-B11)	=MINUTE(D11)	=MID(A11,9,1)
12	2610A1021G					=MID(A12,9,1)
13	2610A1351V					=MID(A13,9,1)
14	2610A1141V					=MID(A14,9,1)
15	2610A1641V			=IF(B15>C15,0,C15-B15)	=MINUTE(D15)	=MID(A15,9,1)
16	2620T1162K	0.460416666666667	0.465277777777778	=IF(B16>C16,0,C16-B16)		
17	2620T1912K	0.485416666666667	0.490277777777778	=IF(B17>C17,0,C17-B17)		
18	2620T1272G	0.479861111111111	0.484027777777778	=IF(B18>C18,0,C18-B18)		
19	2620T1472V	0.493055555555556	0.497222222222222	=IF(B19>C19,0,C19-B19)		
20	2620T1342K	0.493055555555556	0.496527777777778	=IF(B20>C20,0,C20-B20)	=MINUTE(D20)	=MID(A20,9,1)

Late
= IF( )	1 mark
B7>C7	1 mark
,0	1 mark
C7-B7	1 mark

Minutes
=MINUTE()	1 mark
D7	1 mark

Bus Route
MID ( )	1 mark
A7	1 mark
,9	1 mark
,1	1 mark

Formulae printed by A Candidate ZZ999 9999

	G	H
1	each Hotel	
2	delay analysis	
3	Number of long delays	
4	=COUNTIF(E7:E132,">=4")	
6	Capacity	Destination
7	=VLOOKUP(F7*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A7,5,1),j17destination.csv!$A$1:$B$7,2,0)
8	=VLOOKUP(F8*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A8,5,1),j17destination.csv!$A$1:$B$7,2,0)
9	=VLOOKUP(F9*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A9,5,1),j17destination.csv!$A$1:$B$7,2,0)
10	=VLOOKUP(F...ats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A10,5,1),j17destinati...$1:$B$7,2,0)
11	=VL...	...ID(A11,5,1),j17de...
12	=VL...	...ID(A12,5,1),j17de...
13	=VL...	...ID(A13,5,1),j17de...
14	=VL...	...ID(A14,5,1),j17de...
15	=VL...	...ID(A15,5,1),j17de...
16	=VL...	...ID(A16,5,1),j17de...
17	=VL...	...ID(A17,5,1),j17de...
18	=VLOOKUP(F18*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A18,5,1),j17de...
19	=VLOOKUP(F19*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A19,5,1),j17de...
20	=VLOOKUP(F20*1,j17seats.csv!$A$2:$B$10,2,FALSE)	=VLOOKUP(MID(A20,5,1),j17de...

Capacity

=VLOOKUP( )	1 mark
F7*1 (or other function to turn into a number)	1 mark
,SEATS.csv (must be this file with csv extension)	1 mark
!$A$2:$B$10	1 mark
,2	1 mark
,FALSE or ,0	1 mark

Destination

=VLOOKUP()	1 mark
MID(A7,5,1)	1 mark
,destination.csv	1 mark
!$A$1:$B$7	1 mark
,2	1 mark
,FALSE or ,0	1 mark
Correct replication – all 5 columns	1 mark
All formulae and labels fully visible	1 mark
Landscape orientation	1 mark
Row and column headings visible	1 mark
Print area set A1 – I20 (extra column)	1 mark

Header

Formulae printed by: & candidate details	1 mark

Lunchtime journeys - printed by A Candidate ZZ999 9999

	A	B	C	D	E	F	G	H
1	Cansaulim Beach Hote							
2	Mini-bus services - delay analysis							
3	Average delay		Longest delay		Number of delays		Number	
4	5		25		95			
6	Bus Code	Due	Arrived	Late	Minutes	Bus Route	Capacity	Dest
10	2610A1551G	12:05	12:07	00:02	2	1	15	Airp
15	2610A1641V	12:14	12:14	00:00	0	1	15	Airp
55	2630M1443V	12:23	12:23	00:00	0	3	15	Shop
58	2630M1953G	12:27	12:27	00:00	0	3	15	Shop
66	2640C1744G	12:11	12:11	00:00	0	4	18	Chile
73	2650T1655K	12:01	12:05	00:04	4	5	32	Elephant sanctuary
76	2650T1155K	12:04	12:06	00:02	2	5	32	Elephant sanctuary
91	2660D1896G	12:29	12:32	00:03	3	6	16	Cansaulim village centre
101	2670S1497G	12:30	12:36	00:06	6	7	53	Spice farm
103	2670S1637G	12:00	12:05	00:05	5	7	53	Spice farm
107	2670S1007K	12:11	12:12	00:01	1	7	53	Spice farm
113	2670S2097K	12:19	12:19	00:00	0	7	53	Spice farm
117	2680A7168K	12:03	12:09	00:06	6	8	12	Airport

Header
Lunchtime journeys – printed by: and cand. details 1 mark

Formatting
Row 4 – integer   1 mark
Other rows consistent formatting   1 mark

Sorting
Ascending on Bus route then descending on Minutes
       1 mark

Searching – 13 records
Due >=12:00   1 mark
and <=12:30   1 mark

Single page   1 mark
All visible   1 mark

Long delays by route – printed by: A Candidate ZZ999 9999

Number of buses with a long delay								
Route 1	Route 2	Route 3	Route 4	Route 5	Route 6	Route 7	Route 8	Route 9
2	10	7	2	6	8	7	5	3

Header
Long delays by route – printed by: and cand. details   1 mark

Values
Values as shown: –1 per error or omission   3 marks
Single page and fully visible   1 mark

Long delays by route – printed by: A Candidate ZZ999 9999

	A
1	
2	Route 1
3	=COUNTIFS(BUS!$E$7:$E$132,">3",BUS!$F$7:$F$132,RIGHT(Extract!A2,1))

Long delays by route – printed

Formulae

=COUNTIFS(…)	2 marks
Reference to second worksheet	1 mark
!$E$7:$E$132	1 mark
Absolute referencing	1 mark
,">3" or ,">=4"	1 mark
, Reference to second worksheet	1 mark
!$F$7:$F$132	1 mark
,RIGHT( ) or MID( )	1 mark
Relative reference to cell above (probably A2)	1 mark
,1 or ,7,1	1 mark
Landscape with all formulae and labels fully visible	1 mark
Row and column headings visible	1 mark

	B
1	
2	Route 2
3	=COUNTIFS(BUS!$E$7:$E$132,">3",BUS!$F$7:$F$132,RIGHT(Extract!B2,1))

Long delays by route – printed by: A Can

	C
1	
2	Route 3
3	=COUNTIFS(BUS!$E$7:$E$132,">3",BUS!$F$7:$F$132,RIGHT(Extract!C2,1))

Long delays by route – printed by: A Candidate ZZ999 9999

	D
1	
2	Route 4
3	=COUNTIFS(BUS!$E$7:$E$132,">3",BUS!$F$7:$F$132,RIGHT(Extract!D2,1))

Long delays by route – printed by: A Candidate ZZ999 9999

	E
1	**Number of buses with a long delay**
2	Route 5
3	=COUNTIFS(BUS!$E$7:$E$132,">3",BUS!$F$7:$F$132,RIGHT(Extract!E2,1))

Long delays by route – printed by: A Candidate ZZ999 9999

	F
1	
2	Route 6
3	=COUNTIFS(BUS!$E$7:$E$132,">3",BUS!$F$7:$F$132,RIGHT(Extract!F2,1))

Long delays by route – printed by: A Candidate ZZ999 9999

	G
1	
2	Route 7
3	=COUNTIFS(BUS!$E$7:$E$132,">3",BUS!$F$7:$F$132,RIGHT(Extract!G2,1))

Long delays by route – printed by: A Candidate ZZ999 9999

	H
1	
2	Route 8
3	=COUNTIFS(BUS!$E$7:$E$132,">3",BUS!$F$7:$F$132,RIGHT(Extract!H2,1))

Long delays by route – printed by: A Candidate ZZ999 9999

	I
1	
2	Route 9
3	=COUNTIFS(BUS!$E$7:$E$132,">3",BUS!$F$7:$F$132,RIGHT(Extract!I2,1))

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	A	B	C	D	E
1					
2					
3	Cost per minute per seat:	0.0213			
4					
5	=destination.csv!B1	=SUMIF($H$16:$H$141,A5,$I$16:$I$141)			
6	=destination.csv!B2	=SUMIF($H$16:$H$141,A6,$I$16:$I$141)			
7	=destination.csv!B3	=SUMIF($H$16:$H$141,A7,$I$16:$I$141)			
8	=destination.csv!B4	=SUMIF($H$16:$H$141,A8,$I$16:$I$141)			
9	=destination.csv!B5	=SUMIF($H$16:$H$141,A9,$I$16:$I$141)			
10	=destination.csv!B6	=SUMIF($H$16:$H$141,A10,$I$16:$I$141)			
11	=destination.csv!B7	=SUMIF($H$16:$H$141,A11,$I$16:$I$141)			
12					
13	Total cost of the delays.	=SUM(B5:B11)			
14					
15	Bus Code	Due	Arrived	Late	Minutes
16	2610A1961G	0.491666666666667	0.494444444444444	=IF(B16>C16,0,C16-B16)	=MINUTE(D16)
17	2610A1821G	0.402083333333333	0.404861111111111	=IF(B17>C17,0,C17-B17)	=MINUTE(D17)
18	2610A1251V	0.403472222222222	0.405555555555556	=IF(B18>C18,0,C18-B18)	=MINUTE(D18)
19	2610A1551G	0.503472222222222	0.504861111111111	=IF(B19>C19,0,C19-B19)	=MINUTE(D19)
20	2610A1861V	0.418055555555556	0.419444444444444	=IF(B20>C20,0,C20-B20)	=MINUTE(D20)
21	2610A1021G	0.413888888888889	0.414583333333333	=IF(B21>C21,0,C21-B21)	=MINUTE(D21)
22	2610A1351V	0.477083333333333	0.477083333333333	=IF(B22>C22,0,C22-B22)	=MINUTE(D22)
23	2610A1141V	0.382638888888889	0.382638888888889	=IF(B23>C23,0,C23-B23)	=MINUTE(D23)
24	2610A1641V	0.509722222222222	0.509722222222222	=IF(B24>C24,0,C24-B24)	=MINUTE(D24)
25	2620T1162K	0.460416666666667	0.465277777777778	=IF(B25>C25,0,C25-B25)	=MINUTE(D25)

Destination

List of destinations (not routes) visible	1 mark
=SUMIF(…)	1 mark
$H$16:$H$141	1 mark
,A5	1 mark
,$I$16:$I$141	1 mark

Formulae

Printout fully visible with row and column headings	1 mark

	F	G
1		Costs incurred from late buses
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15	Bus route	Capacity
16	=MID(A16,9,1)	=VLOOKUP(F16*1,'D:\CIE\9713\2017\2017_New_June_9713_02\worked\[SEATS.csv]SEATS'!$A$2:$B$10,2,FALSE)
17	=MID(A17,9,1)	=VLOOKUP(F17*1,'D:\CIE\9713\2017\2017_New_June_9713_02\worked\[SEATS.csv]SEATS'!$A$2:$B$10,2,FALSE)
18	=MID(A18,9,1)	=VLOOKUP(F18*1,'D:\CIE\9713\2017\2017_New_June_9713_02\worked\[SEATS.csv]SEATS'!$A$2:$B$10,2,FALSE)
19	=MID(A19,9,1)	=VLOOKUP(F19*1,'D:\CIE\9713\2017\2017_New_June_9713_02\worked\[SEATS.csv]SEATS'!$A$2:$B$10,2,FALSE)
20	=MID(A20,9,1)	=VLOOKUP(F20*1,'D:\CIE\9713\2017\2017_New_June_9713_02\worked\[SEATS.csv]SEATS'!$A$2:$B$10,2,FALSE)
21	=MID(A21,9,1)	=VLOOKUP(F21*1,'D:\CIE\9713\2017\2017_New_June_9713_02\worked\[SEATS.csv]SEATS'!$A$2:$B$10,2,FALSE)
22	=MID(A22,9,1)	=VLOOKUP(F22*1,'D:\CIE\9713\2017\2017_New_June_9713_02\worked\[SEATS.csv]SEATS'!$A$2:$B$10,2,FALSE)
23	=MID(A23,9,1)	=VLOOKUP(F23*1,'D:\CIE\9713\2017\2017_New_June_9713_02\worked\[SEATS.csv]SEATS'!$A$2:$B$10,2,FALSE)
24	=MID(A24,9,1)	=VLOOKUP(F24*1,'D:\CIE\9713\2017\2017_New_June_9713_02\worked\[SEATS.csv]SEATS'!$A$2:$B$10,2,FALSE)
25	=MID(A25,9,1)	=VLOOKUP(F25*1,'D:\CIE\9713\2017\2017_New_June_9713_02\worked\[SEATS.csv]SEATS'!$A$2:$B$10,2,FALSE)

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	H	I
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15	Destination	Cost of delay
16	=VLOOKUP(MID(A16,5,1),destination.csv!$A$1:$B$7,2,0)	=IF(C16<B16,MINUTE(B16-C16),-1*MINUTE(C16-B16))*G16*$B$3
17	=VLOOKUP(MID(A17,5,1),destination.csv!$A$1:$B$7,2,0)	=IF(C17<B17,MINUTE(B17-C17),-1*MINUTE(C17-B17))*G17*$B$3
18	=VLOOKUP(MID(A18,5,1),destination.csv!$A$1:$B$7,2,0)	=IF(C18<B18,MINUTE(B18-C18),-1*MINUTE(C18-B18))*G18*$B$3
19	=VLOOKUP(MID(A19,5,1),destination.csv!$A$1:$B$7,2,0)	=IF(C19<B19,MINUTE(B19-C19),-1*MINUTE(C19-B19))*G19*$B$3
20	=VLOOKUP(MID(A20,5,1),destination.csv!$A$1:$B$7,2,0)	=IF(C20<B20,MINUTE(B20-C20),-1*MINUTE(C20-B20))*G20*$B$3
21	=VLOOKUP(MID(A21,5,1),destination.csv!$A$1:$B$7,2,0)	=IF(C21<B21,MINUTE(B21-C21),-1*MINUTE(C21-B21))*G21*$B$3
22	=VLOOKUP(MID(A22,5,1),destination.csv!$A$1:$B$7,2,0)	=IF(C22<B22,MINUTE(B22-C22),-1*MINUTE(C22-B22))*G22*$B$3
23	=VLOOKUP(MID(A23,5,1),destination.csv!$A$1:$B$7,2,0)	=IF(C23<B23,MINUTE(B23-C23),-1*MINUTE(C23-B23))*G23*$B$3
24	=VLOOKUP(MID(A24,5,1),destination.csv!$A$1:$B$7,2,0)	=IF(C24<B24,MINUTE(B24-C24),-1*MINUTE(C24-B24))*G24*$B$3
25	=VLOOKUP(MID(A25,5,1),destination.csv!$A$1:$B$7,2,0)	=IF(C25<B25,MINUTE(B25-C25),-1*MINUTE(C25-B25))*G25*$B$3

Callout (pointing to cell I16):

Journey
New column for cost of delay   1 mark
=IF(   )   1 mark
C16<B16,   1 mark
MINUTE(B16-C16)   1 mark
,-1*   1 mark
MINUTE(C16-B16)   1 mark
*G16 reference to Capacity   1 mark
*B3 reference to cost per minute per seat   1 mark
As an absolute reference   1 mark

Values
Appropriate title and formatting   1 mark
Place for cost per seat per minute identified   1 mark
Values printout, all data fully visible   1 mark
Single page wide, no row and column headings   1 mark

Costs incurred from late buses

Cost per minute per seat:	₹ 0.02

Airport	-₹ 14.82
Chile market	-₹ 7.28
Cansualim village centre	-₹ 26.92
Shopping mall	-₹ 18.85
Spice farm	-₹ 69.99
Elephant sanctuary	-₹ 69.52
Waterwise - river trip	-₹ 33.74

Total cost of the delays.	-₹ 241.14

Bus Code	Due	Arrived	Late	Minutes	Bus route	Capacity	Destination	Cost of delay
2610A1961G	11:48	11:52	00:04	4	1	15	Airport	-₹ 1.28
2610A1821G	09:39	09:43	00:04	4	1	15	Airport	-₹ 1.28
2610A1251V	09:41	09:44	00:03	3	1	15	Airport	-₹ 0.96
2610A1551G	12:05	12:07	00:02	2	1	15	Airport	-₹ 0.64
2610A1861V	10:02	10:04	00:02	2	1	15	Airport	-₹ 0.64
2610A1021G	09:56	09:57	00:01	1	1	15	Airport	-₹ 0.32
2610A1351V	11:27	11:27	00:00	0	1	15	Airport	₹ 0.00
2610A1141V	09:11	09:11	00:00	0	1	15	Airport	₹ 0.00
2610A1641V	12:14	12:14	00:00	0	1	15	Airport	₹ 0.00
2620T1162K	11:03	11:10	00:07	7	2	16	Elephant sanctuary	-₹ 2.39
2620T1912K	11:39	11:46	00:07	7	2	16	Elephant sanctuary	-₹ 2.39
2620T1272G	11:31	11:37	00:06	6	2	16	Elephant sanctuary	-₹ 2.04
2620T1472V	11:50	11:56	00:06	6	2	16	Elephant sanctuary	-₹ 2.04
2620T1342K	11:50	11:55	00:05	5	2	16	Elephant sanctuary	-₹ 1.70
2620T1332V	11:11	11:16	00:05	5	2	16	Elephant sanctuary	-₹ 1.70
2620T2062K	11:29	11:33	00:04	4	2	16	Elephant sanctuary	-₹ 1.36
2620T1802K	11:59	12:03	00:04	4	2	16	Elephant sanctuary	-₹ 1.36
2620T1662G	09:29	09:33	00:04	4	2	16	Elephant sanctuary	-₹ 1.36
2620T1452V	09:50	09:54	00:04	4	2	16	Elephant sanctuary	-₹ 1.36
2620T2002G	11:27	11:30	00:03	3	2	16	Elephant sanctuary	-₹ 1.02
2620T1502G	09:31	09:34	00:03	3	2	16	Elephant sanctuary	-₹ 1.02
2620T1032K	10:02	10:05	00:03	3	2	16	Elephant sanctuary	-₹ 1.02
2620T1092V	10:46	10:48	00:02	2	2	16	Elephant sanctuary	-₹ 0.68
2620T2082V	10:23	10:25	00:02	2	2	16	Elephant sanctuary	-₹ 0.68
2620T1702V	10:50	10:50	00:00	0	2	16	Elephant sanctuary	₹ 0.00
2620T1612G	10:59	10:59	00:00	0	2	16	Elephant sanctuary	₹ 0.00
2620T1382G	11:00	11:00	00:00	0	2	16	Elephant sanctuary	₹ 0.00
2620T1012G	10:59	10:58	00:00	0	2	16	Elephant sanctuary	₹ 0.34
2630M1313G	11:42	11:49	00:07	7	3	15	Shopping mall	-₹ 2.24
2630M2113K	11:34	11:40	00:06	6	3	15	Shopping mall	-₹ 1.92
2630M1873G	12:34	12:40	00:06	6	3	15	Shopping mall	-₹ 1.92
2630M1573K	11:51	11:56	00:05	5	3	15	Shopping mall	-₹ 1.60
2630M2013G	11:32	11:37	00:05	5	3	15	Shopping mall	-₹ 1.60
2630M0963G	09:59	10:03	00:04	4	3	15	Shopping mall	-₹ 1.28
2630M1083K	09:10	09:14	00:04	4	3	15	Shopping mall	-₹ 1.28
2630M1563G	12:52	12:55	00:03	3	3	15	Shopping mall	-₹ 0.96
2630M1363V	09:37	09:40	00:03	3	3	15	Shopping mall	-₹ 0.96
2630M1793G	11:19	11:22	00:03	3	3	15	Shopping mall	-₹ 0.96
2630M1203V	10:45	10:48	00:03	3	3	15	Shopping mall	-₹ 0.96
2630M1843K	12:41	12:43	00:02	2	3	15	Shopping mall	-₹ 0.64
2630M1543G	10:48	10:50	00:02	2	3	15	Shopping mall	-₹ 0.64
2630M1053V	10:43	10:45	00:02	2	3	15	Shopping mall	-₹ 0.64
2630M1713K	10:41	10:42	00:01	1	3	15	Shopping mall	-₹ 0.32
2630M1723V	12:42	12:43	00:01	1	3	15	Shopping mall	-₹ 0.32
2630M0973G	11:23	11:24	00:01	1	3	15	Shopping mall	-₹ 0.32
2630M1223V	09:50	09:51	00:01	1	3	15	Shopping mall	-₹ 0.32
2630M1513V	10:22	10:23	00:01	1	3	15	Shopping mall	-₹ 0.32
2630M1673V	12:58	12:58	00:00	0	3	15	Shopping mall	₹ 0.00
2630M1243G	10:41	10:40	00:00	0	3	15	Shopping mall	₹ 0.32
2630M1953G	12:27	12:27	00:00	0	3	15	Shopping mall	₹ 0.00
2630M1883K	12:41	12:41	00:00	0	3	15	Shopping mall	₹ 0.00
2630M1443V	12:23	12:23	00:00	0	3	15	Shopping mall	₹ 0.00
2640C1114K	10:38	10:45	00:07	7	4	18	Chile market	-₹ 2.68
2640C1174K	11:14	11:20	00:06	6	4	18	Chile market	-₹ 2.30

A Candidate ZZ999 9999

2640C1404G	09:40	09:43	00:03	3	4		18	Chile market	-₹ 1.15
2640C1294V	10:14	10:17	00:03	3	4		18	Chile market	-₹ 1.15
2640C1814V	10:39	10:40	00:01	1	4		18	Chile market	-₹ 0.38
2640C1744G	12:11	12:11	00:00	0	4		18	Chile market	₹ 0.00
2640C2024G	09:35	09:35	00:00	0	4		18	Chile market	₹ 0.00
2640C1924K	09:46	09:45	00:00	0	4		18	Chile market	₹ 0.38
2640C1484V	10:14	10:14	00:00	0	4		18	Chile market	₹ 0.00
2640C1624K	09:00	09:00	00:00	0	4		18	Chile market	₹ 0.00
2650T1325G	12:50	13:15	00:25	25	5		32	Elephant sanctuary	-₹ 17.04
2650T1045V	11:37	11:48	00:11	11	5		32	Elephant sanctuary	-₹ 7.50
2650T1435K	11:05	11:15	00:10	10	5		32	Elephant sanctuary	-₹ 6.82
2650T1695G	12:32	12:38	00:06	6	5		32	Elephant sanctuary	-₹ 4.09
2650T1655K	12:01	12:05	00:04	4	5		32	Elephant sanctuary	-₹ 2.73
2650T1975K	10:32	10:36	00:04	4	5		32	Elephant sanctuary	-₹ 2.73
2650T1785V	10:24	10:27	00:03	3	5		32	Elephant sanctuary	-₹ 2.04
2650T2055V	12:39	12:41	00:02	2	5		32	Elephant sanctuary	-₹ 1.36
2650T1155K	12:04	12:06	00:02	2	5		32	Elephant sanctuary	-₹ 1.36
2650T2105G	10:01	10:02	00:01	1	5		32	Elephant sanctuary	-₹ 0.68
2650T1945V	10:32	10:33	00:01	1	5		32	Elephant sanctuary	-₹ 0.68
2650T1235K	09:14	09:15	00:01	1	5		32	Elephant sanctuary	-₹ 0.68
2650T1535V	09:28	09:28	00:00	0	5		32	Elephant sanctuary	₹ 0.00
2660D0956K	12:33	12:52	00:19	19	6		16	Cansualim village centre	-₹ 6.48
2660D1586G	11:04	11:13	00:09	9	6		16	Cansualim village centre	-₹ 3.07
2660D1216G	11:11	11:19	00:08	8	6		16	Cansualim village centre	-₹ 2.73
2660D1686V	11:01	11:08	00:07	7	6		16	Cansualim village centre	-₹ 2.39
2660D1066V	12:34	12:40	00:06	6	6		16	Cansualim village centre	-₹ 2.04
2660D1136K	11:41	11:46	00:05	5	6		16	Cansualim village centre	-₹ 1.70
2660D1856G	12:31	12:36	00:05	5	6		16	Cansualim village centre	-₹ 1.70
2660D1376K	11:30	11:35	00:05	5	6		16	Cansualim village centre	-₹ 1.70
2660D1526K	10:32	10:35	00:03	3	6		16	Cansualim village centre	-₹ 1.02
2660D1986G	09:54	09:57	00:03	3	6		16	Cansualim village centre	-₹ 1.02
2660D1896G	12:29	12:32	00:03	3	6		16	Cansualim village centre	-₹ 1.02
2660D0996G	10:50	10:52	00:02	2	6		16	Cansualim village centre	-₹ 0.68
2660D2036V	10:35	10:37	00:02	2	6		16	Cansualim village centre	-₹ 0.68
2660D1266G	12:59	13:00	00:01	1	6		16	Cansualim village centre	-₹ 0.34
2660D1766K	10:53	10:54	00:01	1	6		16	Cansualim village centre	-₹ 0.34
2660D1416G	10:29	10:29	00:00	0	6		16	Cansualim village centre	₹ 0.00
2670S1777K	09:33	09:52	00:19	19	7		53	Spice farm	-₹ 21.45
2670S1127G	09:21	09:30	00:09	9	7		53	Spice farm	-₹ 10.16
2670S1937K	11:32	11:40	00:08	8	7		53	Spice farm	-₹ 9.03
2670S1497G	12:30	12:36	00:06	6	7		53	Spice farm	-₹ 6.77
2670S2047V	11:11	11:17	00:06	6	7		53	Spice farm	-₹ 6.77
2670S1637G	12:00	12:05	00:05	5	7		53	Spice farm	-₹ 5.64
2670S1287V	11:41	11:45	00:04	4	7		53	Spice farm	-₹ 4.52
2670S1197V	12:53	12:55	00:02	2	7		53	Spice farm	-₹ 2.26
2670S1597K	10:04	10:06	00:02	2	7		53	Spice farm	-₹ 2.26
2670S1007K	12:11	12:12	00:01	1	7		53	Spice farm	-₹ 1.13
2670S1307K	10:27	10:28	00:01	1	7		53	Spice farm	-₹ 1.13
2670S1837G	09:34	09:34	00:00	0	7		53	Spice farm	₹ 0.00
2670S2097K	12:19	12:19	00:00	0	7		53	Spice farm	₹ 0.00
2670S1907V	09:15	09:15	00:00	0	7		53	Spice farm	₹ 0.00
2670S0987V	09:05	09:05	00:00	0	7		53	Spice farm	₹ 0.00
2670S1427G	10:11	10:10	00:00	0	7		53	Spice farm	₹ 1.13
2680A8798G	12:39	12:48	00:09	9	8		12	Airport	-₹ 2.30
2680A8148G	10:06	10:14	00:08	8	8		12	Airport	-₹ 2.04
2680A9058V	11:41	11:48	00:07	7	8		12	Airport	-₹ 1.79
2680A7338K	12:33	12:39	00:06	6	8		12	Airport	-₹ 1.53
2680A7168K	12:03	12:09	00:06	6	8		12	Airport	-₹ 1.53
2680A3938K	10:50	10:53	00:03	3	8		12	Airport	-₹ 0.77
2680A1038K	10:32	10:33	00:01	1	8		12	Airport	-₹ 0.26
2680A7568V	12:42	12:40	00:00	0	8		12	Airport	₹ 0.51
2680A8788G	11:11	11:11	00:00	0	8		12	Airport	₹ 0.00
2690W2079G	11:40	11:58	00:18	18	9		48	Waterwise - river trip	-₹ 18.40
2690W1609G	11:04	11:12	00:08	8	9		48	Waterwise - river trip	-₹ 8.18
2690W1109V	11:53	11:57	00:04	4	9		48	Waterwise - river trip	-₹ 4.09
2690W1079K	09:02	09:05	00:03	3	9		48	Waterwise - river trip	-₹ 3.07
2690W1759V	11:29	11:30	00:01	1	9		48	Waterwise - river trip	-₹ 1.02
2690W1469K	09:47	09:47	00:00	0	9		48	Waterwise - river trip	₹ 0.00
2690W1739V	10:11	10:11	00:00	0	9		48	Waterwise - river trip	₹ 0.00
2690W1189V	10:31	10:31	00:00	0	9		48	Waterwise - river trip	₹ 0.00

A Candidate ZZ999 9999

2690W1399G	12:49	12:49	00:00	0	9	48	Waterwise - river trip	₹ 0.00
2690W1999K	09:07	09:06	00:00	0	9	48	Waterwise - river trip	₹ 1.02