

INFORMATION TECHNOLOGY

9626/02 May/June 2017

Paper 2 Practical 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.

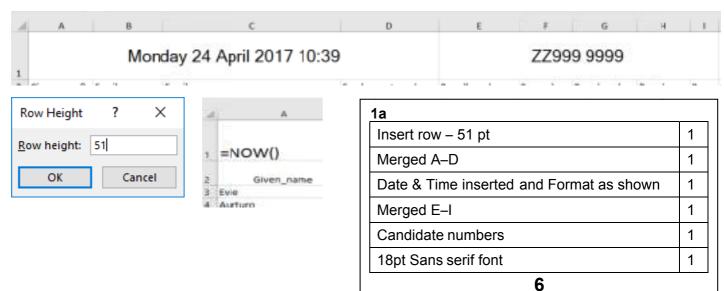
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Task 1a





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1c

			erating the email addre	esses	<u>_1c</u>
Dupl	licates can	be generated			Duplicates possible
				[1]	Method to identify
			ically detect this proble		Examples found
	conditional valid	formatting and	I highlight duplicate val	ues	Suggested solution
Ац	valid			[1]	4
Give	an examp	le of an email a	address that is affected		
Rhy	's I	Manning r.	.manning@tts.com		
Rog	jer 🚺	Manning r.	manning@tts.com		
				[1]	
Sua	pest a meth	nod of correctin	a this address		
			adding a number or a le	etter	
				[1]	
Plac	e screensh	ots of the corre	ected email addresses.		
30	Roger	Manning	ro.manning@tts.com	1	
13	Rhys	Manning	r.manning@tts.com		
107	Hatas	Imre	h.imre@tts.com	-	1c
120	Hajnalka	Imre	hj.imre@tts.com		Example of solution 1
					Rhys/Roger Corrected 1
				[3]	, ,
				[3]	Imre(S) Corrected 1

1d

2	Given name	Family name	Email	Employ	Payroll number	Pay scale	Branch code	B
0	Evie	Barber	e.barber@tts.com	2914	=UPPER(LEFT(A3,1)&LEFT(B3,2))&D3&TEXT(G3,"000")	C3	32	Ā
	Aurturo	Conseca	a.conseca@tts.com	4300	=UPPER(LEFT(A4,1)&LEFT(B4,2))&D4&TEXT(G4,"000")	81	32	A

=UPPER(LEFT(A3,1)&LEFT(B3,2))&D3&TEXT(G3,"000")

1d					
Upper()	Upper()				
Left (A3,1)	Left (A3,1)				
&Left(B3,2)	&Left(B3,2)				
&D3&		1			
TEXT() or	Nested IF()	1			
G3	(and Works)	1			
,"000"	(max 2/3)	1			
	7				

3

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1e

Pay =VLOOKUP(LEFT(F3,1),TTSPay_Scales.xlsxl\$A\$2:\$J\$8,MATCH(VALUE(RIGHT(F3,1)),TTSPay_Scales.xlsxl\$A\$2:\$J\$2,0),0)

1e						
Vlookup()	1					
Left(F3,1)	1					
Full Range	1					
Final ,0	1					
4						

1e	
Match()	1
Right()	1
(F3,1)	1
Range Top row	1
,0	1
5	

1	A	8	c	D	E	F.	G	н	1
1	Given_name	Family_name	email	Employment number	Payroll number	Pay Scale	Branch Code	Branch	Pay
2	Evie	Barber	e.barber@tts.com	2914	EBA2914032	C3	32	Antwerp	€ 28,400
з	Aurturo	Conseca	a.conseca@tts.com	4300	ACO4300032	B1	32	Antwerp	€ 26,000

1e Euros & 0 d.p. **1**

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1f Filter out Es

(no deletion)

1

1f

2	Given 💌	Family -	Email 💌	Employr *	Payroll n
12	Joel	Knight	j.knight@tts.com	9875	JKN98750
59	Harumi	Valencia	h.valencia@tts.com	4440	HVA4440
105	Endre	Mekek	e.mekek@tts.com	7395	EME7395

Antwerp Total	=SUBTOTAL(109,I3:I19)
Antwerp Average	=SUBTOTAL(101,13:119)
Antwerp Total	=SUBTOTAL(9,13:119)

1f	
Efficient subtotal formula	1
Efficient averages	1
Correct Subtotals	1
Correct averages	1
All branches subtotalled	1
5	<u> </u>

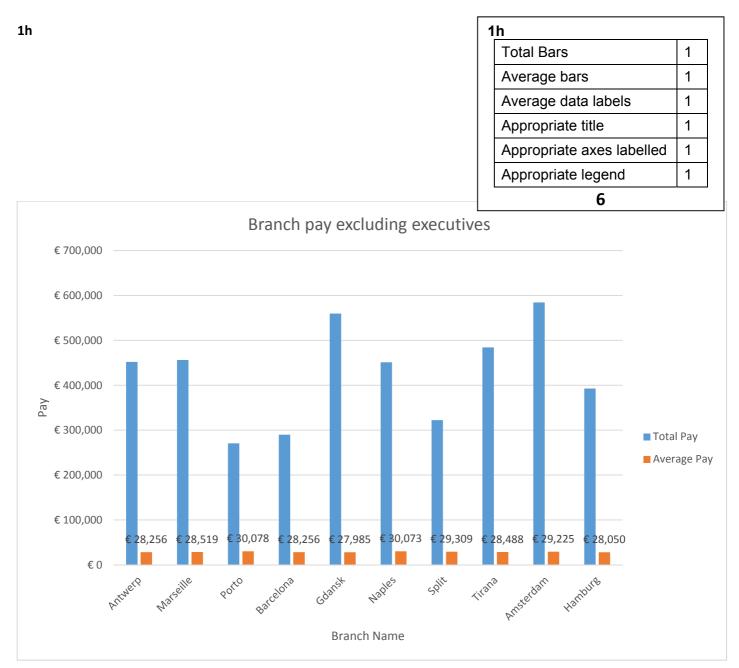
Antwerp ⊺otal	€	452,100
Antwerp Average	€	28,256
Marseille Total	€	456,300
Marseille Average	€	28,519
Porto Total	€	270,700
Porto Average	€	30,078
Barcelona Total	€	289,800
Barcelona Average	€	28,980
Gdansk Total	€	559,700
Gdansk Average	€	27,985
Naples Total	€	451,100
Naples Average	€	30,073
Split Total	€	322,400
Split Average	€	29,309
Tirana Total	€	484,300
Tirana Average	€	28,488
Amsterdam Total	€	584,500
Amsterdam Average	€	29,225
Hamburg Total	€	392,700
Hamburg Average	€	28,050

1g

Total Pay	Antwerp	+TTSMerge2.xlsx1\$i\$19
	Marseille	=TTSMerge2.xlsx1\$I\$37
	Porto	TTSMerge2.xlsx1\$i548
	Barcelona	«TTSMerge2.xlsx1\$i561
	Gdansk.	+TTSMerge2.xlsx1\$i\$83
	Naples	=TTSMerge2.xlsx1t100
	Split	#TTSMerge2.xisx1t114
	Tirana	=TTSMerge2.xlsx3(133
	Amsterdam	#TTSMerge2.xlsx1i155
	Hamburg	#TTSMerge2.xlsx1i1.71
Average Pay	Antwerp	=TTSMerge2.xlsx1\$i\$20
	Marseille	=TTSMerge2.xlsx1\$I\$38
	Porto	=TTSMerge2.xlsx1\$I\$49
	Barcelona	=TTSMerge2.xlsx1\$i\$62
	Gdansk	«TTSMerge2.xisx1\$I\$84
	Naples	+TTSMerge2.xisx1i101
	Split	+TTSMerge2.xisxli115
	Tirana	«TTSMerge2.xlsx8i134
	Amsterdam	«TTSMerge2.xlsx8i156
	Hamburg	=TTSMerge2.slss1i172

1g		
All branch totals shown	1	
Branches Total linked to TTSMerge	1	
All branch averages shown	1	
Branches Averages linked to TTSMerge	1	
4		

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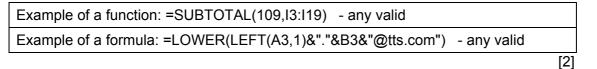
Task 1i

What is the difference between a spreadsheet function and a spreadsheet formula?

A function is a built in calculation or operation	
A formula is entered by a user and may consist of several functions and operations	

[2]

Give an example of each from your TTSMerge file.



Task 2

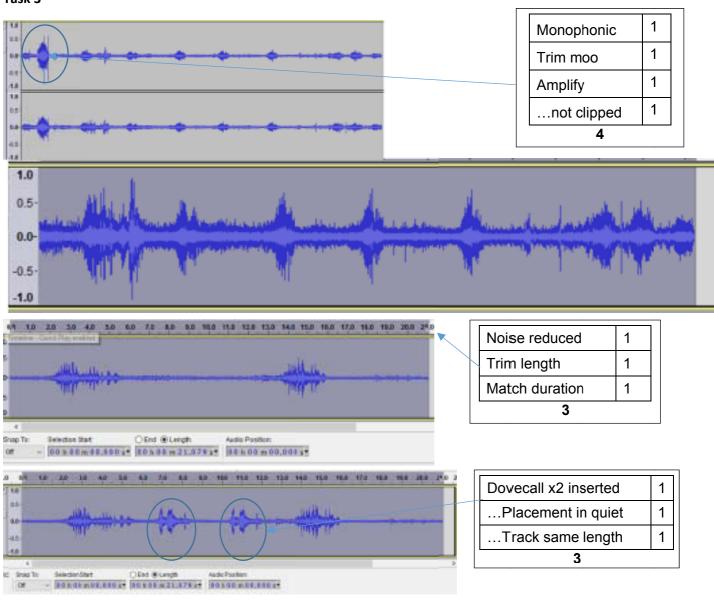
16:19 -1280 x 720	1	Jan-18 Caption	1	Leaves clip	1
Correct transitions	1	2 secs	1	Trimmed	1
Title clip	1	Same position	1	5secs	1
4 secs	1	Both White	1	A chance toCaption	1
Protecting Nature Caption	1	Both 48pt	1	Same font	1
2 secs	1	Both Sans-Serif	1	Same position	1
Centred	1				
Flowers clip	1	Bee clip	1	January 2018 caption	1
Trimmed	1	Correct trim	1	Remainder of clip	1
7 secs	1	London Caption	1	Black	1
An internationalCaption	1	After 1 sec	1	Same font – 48pt	1
Same font	1	3 secs	1	Position(Both)	1
• **	1				
Same position					



Property	Vakie	
Description		
Title		
Subthe		
Rating	我我我放弃	
Tags		
Comments		
Video		
Length	00:00:21	
Prane width	1200	
Frane height	720	
Data rate	8069kbps	
Total bitrate	8245dgm	
Prame rate	29 frames/second	
Audio		
Bit rate	1766bps	
Channels	2 (steres)	
Audo sample rate	42 8-12	

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Task 3



Soundtrack saved as Soundtrack128.mp3 at 128kbs	1
Soundtrack added to movie	1

[2]

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Task 3b

Enter the size of the DoveCall128.mp3 file	27 KB
Enter the size of the DoveCall256.mp3 file	54 KB
Enter the size of the DoveCall.wav file	140 KB
	[3]

Explain the difference in these file sizes.

DoveCall128.mp3 is a compressed file exported with a bit rate of 128 kbps.

DoveCall256.mp3 is a compressed file exported with a higher bit rate so more data is saved and the file is bigger.

DoveCall.wav is the original unprocessed recording so all the data is saved resulting in the biggest file size.

Give an advantage of each of the two file types.

All the data is preserved in a .WAV file so processing can be carried out on the original recording.

.MP3 files are compressed so file sizes are smaller.

[2]

[3]