

Mark Scheme (Results)

January 2013

GCE Applied ICT (6953) Unit 3: The Knowledge Worker

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January 2013
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Activity	Answer	Mar	·k
1	Understanding the situation		
	Any 12 of:		
A1	New Premier League team	(1)	
A2	Organising away trips	(1)	
A3	Tickets and Travel package	(1)	
A4	14,678 registered supporters	(1)	
<b>A</b> 5	Rubicon Transport supply coaches	(1)	
A6	£350 per coach	(1)	
A7	£1.50 fuel surcharge per 100 miles	(1)	
A8	£75 extra driver surcharge.	(1)	
A9	Ticket Prices £30 to £54 (need both)	(1)	
A10	Don't want <b>overall</b> profit but cannot make loss	(1)	
A11	(Online) survey 94% sample	(1)	
A12	4 team classifications (EG,MT, RD, PR)	(1)	
A13	Weekdays fewer supporters	(1)	
A14	Fewer supporters on longer trips (time or distance)	(1)	
A15	More expensive package – fewer supporters.	(1)	
A16	Extra driver required if trip over 9 hours	(1)	
			12
B1	Survey: Who would buy tickets for the matches?	(1,1)	
B2	Royal Automobile Club: Distances and Times	(1,1)	
B3	Premier League Clubs: Ticket Prices	(1,1)	
B4	Premier League : Fixtures	(1,1)	
B5	Rubicon Transport (Coach company(s)) : Coach Costs		
	(If individual costs given all must be listed.)	(1,1)	
	Data source must be identified to access information		
	marks. Award one mark in each case for correct data		
	source		10
	Total Marks for Activity 1		22

2 Computer Modelling Import Data Columns C-AR, rows 19-27 A1 Fixtures imported correctly (1) A2 Haway imported correctly (1)  2 Customer A, D, G-I, K-M, rows 2-8 B1 Working formula in D3 (-IF(B3="S",2,3)) B2 Formula replicated to D8 (any formula replicated correctly) (1) B3 Working formula in G3 (=TeamsIH4) might use a = VLOOKUP(B4, Teams!\$\$\frac{8}{3}\text{ signal}\$ is 100 column then they cannot have this is in column 1 B6 Bonus for use of INT or ROUNDDOWN or QUOTIENT e.g. = INT(G3-TO)-F5) B7 Formula replicated to all cells (if formula includes G3) B8 Correct formula in cell I Galls (if formula includes F3 and H3) B7 Formula replicated to all cells (if formula includes F3 and H3) B8 Correct formula replicated to all cells (if formula includes F3 and H3) B9 Bonus for INT or ROUNDDOWN Cell R3 correct formula = (J3-60)/15 fb the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column 1 B6 Bonus for use of INT or ROUNDDOWN or QUOTIENT e.g. = INT(F3-T(00-H3)/100) ALTERNATIVE INT(F3-T(100-H3)/100) B9 Bonus for INT or ROUNDDOWN Cell R3 correct formula = (J3-60)/15-6 If the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column M Cell R3 correct formula = (J3-60)/15-6 If the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column M Cell R3 correct formula = (J3-60)/15-6 If the candidate has divided by 100 then the mark can be given (assume that they have divided by 100 in this column then they cannot have this is in column M Cell R4 correct Formula in L3 = IF(K3-0,0,K3,0)	A - 11: -11: -	A	N.4 L -
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A1 Fixtures imported correctly A2 Haway imported correctly (1) A2 Haway imported correctly (1)  C2	2		
A2 Haway imported correctly  (1)  2  2  2  2  2  2  2  2  2  2  2  2  2		•	(1)
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correctly)  B3 Working formula in G3 (=Teams!H4) might use a =VLOOKUP(B4,Teams!\$8\$4:\$H\$20,3,false)  B4 Formula replicated to all cells (if working formula)  Correct formula to calculate percentage in Cell H3 = (G3-10)/5  If the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column I  B6 Bonus for use of INT or ROUNDDOWN or QUOTIENT e.g. =INT((G3-10)/5)  Correct formula in cell I3 =INT(F3*(1-H3/100)) ALTERNATIVE INT(F3*(100-H3)/100)  B7 Formula replicated to all cells (if formula includes G3)  B8 Correct formula in Cell I3 =INT(F3*(1-H3/100)) ALTERNATIVE INT(F3*(100-H3)/100)  B10 Formula replicated correctly (if formula includes F3 and H3)  Cell K3 correct formula = (J3-60)/15*6  If the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column M  B12 INT or ROUNDDOWN or QUOTIENT used  Correct Formula in L3 = IF(K3<0,0,K3) = IF(K3<0,0,K3) = IF(K3<0,0,K3) = IF(K3<0,0,K3,0) = IF(K3>0,K3,0)  Formula replicated correctly (if formula includes K3 at beginning and end)  B16 Working formula in cell M3 = I3*(1-L3/100)			(1)
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B5 Correct formula to calculate percentage in Cell H3 = (G3-10)/5 If the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column I  B6 Bonus for use of INT or ROUNDDOWN or QUOTIENT e.g. = INT((G3-10)/5)  B7 Formula replicated to all cells (if formula includes G3)  B8 Correct formula in cell I3 = INT(F3*(1-H3/100)) ALTERNATIVE INT(F3*(100-H3)/100)  B9 Bonus for INT or ROUNDDOWN  B10 Formula replicated correctly (if formula includes F3 and H3)  B11 Cell K3 correct formula = (J3-60)/15*6 If the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column M  B12 INT or ROUNDDOWN or QUOTIENT used  Correct Formula in L3 = IF(K3<0,0,K3) = IF(K3<0,0,K3) = IF(K3>0,K3,0) = IF(K3>0,K3,0)  IF(K3>=0,K3,0)  B15 Formula replicated correctly (if formula includes K3 at beginning and end)  Working formula in cell M3 = I3*(1-L3/100)		=VLOOKUP(B4,Teams!\$B\$4:\$H\$20,3,false)	(1)
= (G3-10)/5   If the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column I   (1)	B4	Formula replicated to all cells (if working formula)	(1)
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given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column I (1)  B6 Bonus for use of INT or ROUNDDOWN or QUOTIENT e.g. = INT((G3-10)/5) (1)  B7 Formula replicated to all cells (if formula includes G3) (1)  B8 Correct formula in cell I3 = INT(F3*(1-H3/100)) (1)  B9 Bonus for INT or ROUNDDOWN (1)  B10 Formula replicated correctly (if formula includes F3 and H3) (1)  B11 Cell K3 correct formula = (J3-60)/15*6  If the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column M (1)  B12 INT or ROUNDDOWN or QUOTIENT used (1)  B13 Replicated correctly (if formula includes J3) (1)  B14 Correct Formula in L3 = IF(K3<0,0,K3) = IF(K3<0,0,K3,0) = IF(K3>0,K3,0) = IF(K3>0,K3,0) (1)  B15 Formula replicated correctly (if formula includes K3 at beginning and end) (1)  B16 Working formula in cell M3 = I3*(1-L3/100)		=(G3-10)/5	
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ALTERNATIVE INT(F3*(100-H3)/100) (1)  B9 Bonus for INT or ROUNDDOWN (1)  B10 Formula replicated correctly (if formula includes F3 and H3) (1)  B11 Cell K3 correct formula = (J3-60)/15*6  If the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column M (1)  B12 INT or ROUNDDOWN or QUOTIENT used (1)  B13 Replicated correctly (if formula includes J3) (1)  B14 Correct Formula in L3 = IF(K3<0,0,K3) = IF(K3<0,0,K3) = IF(K3>0,K3,0) = IF(K3>0,K3,0) (1)  B15 Formula replicated correctly (if formula includes K3 at beginning and end) (1)  B16 Working formula in cell M3 = I3*(1-L3/100)	B7	Formula replicated to all cells (if formula includes G3)	(1)
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H3)  B11 Cell <b>K3</b> correct formula  = (J3-60)/15*6  If the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column M  B12 INT or ROUNDDOWN or QUOTIENT used  B13 Replicated correctly (if formula includes J3)  B14 Correct Formula in <b>L3</b> = IF(K3<0,0,K3)  = IF(K3<0,0,K3)  = IF(K3<0,0,K3,0)  = IF(K3>0,K3,0)  = IF(K3>0,K3,0)  (1)  B15 Formula replicated correctly (if formula includes K3 at beginning and end)  Working formula in cell <b>M3</b> = I3*(1-L3/100)	B9	Bonus for INT or ROUNDDOWN	(1)
B11 Cell <b>K3</b> correct formula  = (J3-60)/15*6  If the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column M  B12 INT or ROUNDDOWN or QUOTIENT used  B13 Replicated correctly (if formula includes J3)  B14 Correct Formula in <b>L3</b> = IF(K3<0,0,K3)  = IF(K3<0,0,K3)  = IF(K3>0,K3,0)  = IF(K3>0,K3,0)  = IF(K3>0,K3,0)  (1)  B15 Formula replicated correctly (if formula includes K3 at beginning and end)  Working formula in cell <b>M3</b> = I3*(1-L3/100)	B10	Formula replicated correctly (if formula includes F3 and	
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If the candidate has divided by 100 then the mark can be given (assume that they have formatted the cell as percentage). However if they have divided by 100 in this column then they cannot have this is in column M (1)  B12 INT or ROUNDDOWN or QUOTIENT used (1)  B13 Replicated correctly (if formula includes J3) (1)  B14 Correct Formula in L3  =IF(K3<0,0,K3)  =IF(K3<=0,0,K3)  =IF(K3>=0,K3,0) (1)  B15 Formula replicated correctly (if formula includes K3 at beginning and end) (1)  B16 Working formula in cell M3 =I3*(1-L3/100)	B11	Cell K3 correct formula	
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column then they cannot have this is in column M  B12 INT or ROUNDDOWN or QUOTIENT used  (1)  B13 Replicated correctly (if formula includes J3)  B14 Correct Formula in L3  =IF(K3<0,0,K3)  =IF(K3<=0,0,K3,0)  =IF(K3>=0,K3,0)  B15 Formula replicated correctly (if formula includes K3 at beginning and end)  B16 Working formula in cell M3 =I3*(1-L3/100)		given (assume that they have formatted the cell as	
B12 INT or ROUNDDOWN or QUOTIENT used  B13 Replicated correctly (if formula includes J3)  B14 Correct Formula in L3  =IF(K3<0,0,K3)  =IF(K3<=0,0,K3)  =IF(K3>0,K3,0)  =IF(K3>=0,K3,0)  B15 Formula replicated correctly (if formula includes K3 at beginning and end)  B16 Working formula in cell M3 =I3*(1-L3/100)		percentage). However if they have divided by 100 in this	
B13 Replicated correctly (if formula includes J3)  B14 Correct Formula in L3  =IF(K3<0,0,K3)  =IF(K3<=0,0,K3,0)  =IF(K3>=0,K3,0)  B15 Formula replicated correctly (if formula includes K3 at beginning and end)  B16 Working formula in cell M3 =I3*(1-L3/100)		column then they cannot have this is in column M	(1)
B14 Correct Formula in L3 $= IF(K3 < 0,0,K3)$ $= IF(K3 < = 0,0,K3)$ $= IF(K3 > 0,K3,0)$ $= IF(K3 > = 0,K3,0)$ (1) B15 Formula replicated correctly (if formula includes K3 at beginning and end) (1) B16 Working formula in cell M3 = $I3*(1-L3/100)$	B12	INT or ROUNDDOWN or QUOTIENT used	(1)
= IF(K3 < 0,0,K3) $= IF(K3 < = 0,0,K3)$ $= IF(K3 > 0,K3,0)$ $= IF(K3 > = 0,K3,0)$ (1)  B15 Formula replicated correctly (if formula includes K3 at beginning and end) (1)  B16 Working formula in cell <b>M3</b> = $I3*(1-L3/100)$	B13	Replicated correctly (if formula includes J3)	(1)
= IF(K3 <= 0,0,K3) $= IF(K3 >= 0,K3,0)$ $= IF(K3 >= 0,K3,0)$ (1)  B15 Formula replicated correctly (if formula includes K3 at beginning and end) (1)  B16 Working formula in cell <b>M3</b> = $I3*(1-L3/100)$	B14	Correct Formula in L3	
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B15 Formula replicated correctly (if formula includes K3 at beginning and end) (1) B16 Working formula in cell <b>M3</b> = I3*(1-L3/100)		=IF(K3>0,K3,0)	
beginning and end) (1) B16 Working formula in cell <b>M3</b> = I3*(1-L3/100)		=IF(K3>=0,K3,0)	(1)
B16 Working formula in cell M3 = I3*(1-L3/100)	B15	Formula replicated correctly (if formula includes K3 at	
B16 Working formula in cell M3 = I3*(1-L3/100)		•	(1)
	B16		
			(1)

Activity	Answer	Mark
B17	ROUND or INT used. =ROUND(I3-I3*L3/100,0)	(1)
B18	Divided by 100 - award if evidence of percentage	
	calculation	
	Can be awarded in column K if /100 used there	
	Cannot be awarded twice	(1)
B19	Formula replicated correctly (if formula includes 13 and	(4)
	L3)	(1)
	Tables (Data) (Oaleman B.H. O.C. mare 2.04)	19
	Teams (Data) (Columns B,H, Q-S, rows 3-24)	
	Marks in this section can only be given if the formulae are	
	in the model. It is not possible to get values of zeros	
	without including values of less than 1p even though these will not be displayed.	
	Values for Havering Whitecaps (row 12) must be 0	
	to award marks (Very small residual values may occur	
	via use of formulae – still award profit marks)	
C1		(1)
	Total profit <£4000	(1)
	Total profit <£2000	(1)
	Total profit <£1000	(1)
	Total profit <£500	(1)
C6	Total profit <£200	(1)
		6
	Printouts	
	All 3 printouts and no more in right order are required to	
	be eligible for the following marks	
D1	Row and column headings and gridlines on all	
	3 worksheets	(1)
	Correct header & footer on all 3 worksheets	(1)
D3	Correct rows and columns printed on all 3 worksheets	(1)
		3
	Total Marks for Activity 2	30

Activit	У	Indicative Content			
*3		In report format, not a memo or a letter. (Limited to Level 2 if not a report.)  Suitable title e.g. Report on the "Ticket and Transport" package model.  Introduction including a description of what Ticket & Transport package is and that the model is used to help set the prices.  Explanation of how to change the model so that it works for Stafford Sharks.  How to use instructions for the model  Evaluation of Data Sources  Survey (Stafford Sharks supporters may be different to Havering (e.g. not as wealthy) so Joe should take another survey of his own supporters.  RAC (Good source for distance as they are well known and in the transport business – leave alone).  Premier League (Good source as they arrange fixtures leave alone but you will have to get them again next season.  Premier League Clubs (Good source they should know the prices of their own tickets, leave alone but maybe check again next year)  Rubicon Transport (Joe will need to replace these as they are probably a local firm who wouldn't want to go all the way to Stafford Sharks to pick up their passengers, Joe would need to find his own quotes).  Illustrations (if included):  Relevant  Used in explanations  fit for purpose (embedded in report)  Conclusion.			
	Mark	Descriptor			
0	0	No rewardable content			
1	1-5	The report shows how to change the team to Stafford Sharks and an explanation of how to use the model will be there but it would be difficult to understand. There may or may not be an evaluation of the data sources but the candidate will be unclear as to what the sources are let alone how good they are. The candidate may include diagrams but these will not be explained. The candidate uses everyday language and the response lacks clarity and organisation. Spelling, punctuation and the rules of grammar are used with limited accuracy.			

3			and a clear and unders sources bu may be cor The candid the text. The candid and organis grammar a The report and a clear and unders clear diagraevaluation The candid should be cuses a rang	shows how to che explanation of he standable. There is the candidate in fused about how ate may include ate uses some specification. Spelling, are used with some shows how to che explanation of he standable. The explanation of the data source ate puts forward changed for the Specification.	ow to use the le will be an evaluation and well they will diagrams which pecialist terms approximation and accuracy.  In any to use the explanations will the text. The ces all of which clear arguments approximation specialist terms.	model will be a have been to sate when the model. The model will be a model. The model who was and shows a	be present the data and model. In the data and and and and and and and and and an	d n us nt
				organisation. Spe	<b>.</b>		rules of	
			grammar u	ised with conside	rable accuracy.	•		
					Total Marks for	Activity 3	,	15
					Total Marks for	rictivity 0		13
4		Chai	nging the m	odel				
(a)			nsport Rates					
	A1		a inputted co				(1)	
			•	<u> </u>			, ,	1
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	ch Cap		00 miles	33 £1.50	52 £1	35 £0	40 £1.50	
		_	lement	£75	£50	£22	£32	
(b)				nns A, D, F, rov	vs 4-23			
				n cell <b>D4</b> . It shou				
		=1F	<b>(\$B4</b> =0,0 <u>,</u> 11	NT <b>(\$B4</b> /'Transpo	rt Rates'! <b>C\$4</b> )	+1)		
	B1		king formula					]
	<b>D</b> C			T(B4/'Transport I			(1)	
	B2			absolute (\$B4) k	ooth cases		(1)	
	B3		ow only abs	•	a in D4		(1)	
	B4			<b>/ correct formul</b> IT(\$B4/'Transpor		1)	(1)	
	B5		•	a in <b>F23</b> (with or	•	•	(1)	
	55		ressing	<b>23</b> (WILLI OF	without absolu			
			•	IT(B23/'Transpor	t Rates'!E4)+1		(1)	
	Columns S-U, X rows 4-23							
	B6 Correct formula in <b>S4</b> (=L4*D4)			(1)				
	B7 Correct formula in <b>U23</b> (=N23*F23)				(1)			
			SUM used				(1)	
	B9   Correct formula in <b>X4</b> (=MIN(R4:U4)) B10   Replicated correctly ( <b>must</b> be correct formula in X4)			(1)				
E	310	Rep	licated corre	ctly ( <b>must</b> be co	rrect formula i	n X4)	(1)	4.0
								10

(c)	Teams (Data)	
	Columns B, H, Q-S rows 3-24	
	Values for Havering Whitecaps (row 12) must be 0	
	to award marks (Very small residual values may occur	
	via use of formulae – still award profit marks as per	
_	Activity 2)	
C1	Profit made	(1)
C2	Profit <£4000	(1)
C3	Profit <£3000	(1)
C4	Profit <£1000	(1)
C5	Profit <£200	(1)
C6	Profit <£100	(1)
C7	Profit <£50	(1)
		7
	Printouts	
	All 4 printouts and no more in right order are required to be eligible for the following marks	
D1	Row and Column headings and Gridlines on (All 4	
	worksheets)	(1)
D2	Correct header & footer(All 4 worksheets)	(1)
D3	Correct rows and columns printed(All worksheets)	(1)
		3
	Total Marks for Activity 4	21

SWW			
S1	Authenticating Work (All WP pages have task number,		
	Name, centre number).	(1)	
S2	Appropriate Structure (Pages in correct order & Folder		
	assembled correctly)	(1)	
	Total for SWW		2
	Total for Paper		90

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