
APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY

9713/02

Paper 2 Practical Test A

October/November 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 International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2017 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.

© IGCSE is a registered trademark.

This document consists of **21** printed pages.

No marks to be awarded for any printout not containing the candidate name, candidate number and centre number.

Slide 1

ZZ999, 9999, A Candidate

Hothouse Design – notes for trainees

Presented by: A Candidate

Presentation created	1 mark
Slide master	
Candidate name & no's top left	1 mark
Black 18pt serif font	1 mark
All slides	
Not overlapping	1 mark
Title/subtitle in appropriate format	1 mark
Body text on slides	
Black font	1 mark
Sans serif font	1 mark
Consistent within slide	1 mark

Slide 1	
Title slide added	1 mark
Title & subtitle accurate & appropriate size/style	1 mark

Slide 2

ZZ999, 9999, A Candidate

Help for trainees

Select the topic you require

- [Corporate house styles](#)
- [Verification](#)
- [Validation](#)
- [Contact the office](#)

Slide 3

ZZ999, 9999, A Candidate

Corporate house style

4 features of a corporate house style are:

- **Consistent colour scheme**
- **Consistent font styles**
- **Logo/trade mark/symbol**
- **Branding**
- **Set of rules**
- **Document specifications**

[Max 4]

Slide 4

ZZ999, 9999, A Candidate

Corporate house style

2 reasons why it is used are:

- **Method of recognising company/brand recognition**
- **Ensure consistency of company documents**

[2]

Slide 5

ZZ999, 9999, A Candidate

Corporate house style

2 ways a company could set up its house style are:

- **Styles applied to all documents/website/vehicles/ advertising**
- **Style guides/document templates are used**

[2]

Slide 6

ZZ999, 9999, A Candidate

Corporate house style

6 examples where it may be seen are:

- **Letterheads**
- **Business cards**
- **Advertising**
- **Websites**
- **Company vehicles**
- **Intranet**
- **Predefined in software**

[Max 6]

Slide 7

ZZ999, 9999, A Candidate

Verification

Verification ensures:

- **Accuracy of data entry**
- **Integrity of transmitted data/data is consistent/not corrupted**

[2]

Slide 8

ZZ999, 9999, A Candidate

Verification

7 methods of verification are:

- **Double entry**
- **Two documents compared by computer**
- **Visual verification**
- **Manually compares original/source document with data entered**
- **Data block verification**
- **Checked by computer following transmission**
- **Using checksum**

[7]

Slide 9

ZZ999, 9999, A Candidate

Validation

Validation ensures:

- **Data entered is reasonable**

[1]

Slide 10

ZZ999, 9999, A Candidate

Validation

Validation does not always work because:

- Data can be reasonable, (eg: in dd/mm/yy format date shows 08/01/17 for 1st August) but not correct.

[1]

Slide 11

ZZ999, 9999, A Candidate

Validation

5 methods of validation are:

- **Range check**
- **Look up check**
- **Format check**
- **Length check**
- **Type check**

[5]

PUBLISHED

Planning time for tasks

Header 100% correct 1 mark
 Fits to single page 1 mark
 Gridlines visible 1 mark
 Contents fully visible 1 mark
 Cells A1 to L20 only visible 1 mark

Row 1 & Column A – Bold 1 mark
 Row 1 & Column A – Centre aligned 1 mark

Row 2 deleted 1 mark

	A	B	C	D	E	F	G	H	I	J	K	L
	Project completion	Start date	Day	Month	Year	Planning	Design	Creation	Event	End date	Full end date	Working
1	Event 1	28/08/2016	28	8	2016	50	24	30	6	16/12/2016	16 December 2016 [Quarter 3]	2016 [Quarter 3]
2	Event 2	16/10/2016	16	10	2016	32	22	50	10	07/02/2017	07 February 2017 [Quarter 4]	2017 [Quarter 4]
3	Event 3	02/11/2016	2	11	2016	30	21	45	7	13/02/2017	13 February 2017 [Quarter 4]	2017 [Quarter 4]
4	Event 4	30/11/2016	30	11	2016	36	28	42	7	23/03/2017	23 March 2017 [Quarter 4]	2017 [Quarter 4]
5	Event 5	01/12/2016	1	12	2016	45	45	72	14	26/05/2017	26 May 2017 [Quarter 1]	2017 [Quarter 1]
6	Event 6	02/12/2016	2	12	2016	2	4	10	10	16/08/2017	16 August 2017 [Quarter 2]	2017 [Quarter 2]
7	Event 7	30/12/2016	30	12	2016	20	10	10	10	29/03/2017	29 March 2017 [Quarter 4]	2017 [Quarter 4]
8	Event 8	15/02/2017	15	2	2017	36	72	60	1	29/03/2017	29 March 2017 [Quarter 4]	2017 [Quarter 4]
9	Event 9	02/03/2017	2	3	2017	6	12	10	7	25/04/2017	25 April 2017 [Quarter 1]	2017 [Quarter 1]
10	Event 10	01/04/2017	1	4	2017	3	4	10	7	25/04/2017	25 April 2017 [Quarter 1]	2017 [Quarter 1]
11												
12	Completion dates during											
13	2016 [Quarter 1]		0									
14	2016 [Quarter 2]		0									
15	2016 [Quarter 3]		2									
16	2016 [Quarter 4]		0									
17	2017 [Quarter 1]		2									
18	2017 [Quarter 2]		1									
19	2017 [Quarter 3]		0									

Data in row 11 correct 1 mark

Dates 100% correct 1 mark

Row 12 (now seen as 11)
 Inserted & Event 10 placed 1 mark
 Global replace –Task to Event 1 mark

Columns B & J – dd/mm/yyyy format 1 mark
 Display for column K as shown 1 mark

Correct values shown for count 1 mark

Candidate name & numbers
 In footer 1 mark

Header 100% correct 1 mark
 Landscape 1 mark
 Row & column headings fully visible 1 mark
 Formulae, labels & gridlines fully visib. 1 mark

Formulae and functions used

	D	E	F	G	H	I	J			
1	Project completion	Start date	Day	Month	Year	Planning	Design	Creation	Event	End date
2	Event 1	42610	=DAY(B2)	=MONTH(B2)	=YEAR(B2)	50	24	30	6	=SUM(B2,F2:I2)
3	Event 2	42659	=DAY(B3)	=MONTH(B3)	=YEAR(B3)	32	22	50	10	=SUM(B3,F3:I3)
4	Event 3	42676	=DAY(B4)	=MONTH(B4)	=YEAR(B4)	30	21	45	7	=SUM(B4,F4:I4)
5	Event 4	42704	=DAY(B5)	=MONTH(B5)	=YEAR(B5)	36	28	42	7	=SUM(B5,F5:I5)
6	Event 5	42705	=DAY(B6)	=MONTH(B6)	=YEAR(B6)	45	45	72	14	=SUM(B6,F6:I6)
7	Event 6	42706	=DAY(B7)	=MONTH(B7)	=YEAR(B7)	2	4	10	2	=SUM(B7,F7:I7)
8	Event 7	42734	=DAY(B8)	=MONTH(B8)	=YEAR(B8)	20	10	10	5	=SUM(B8,F8:I8)
9	Event 8	42781	=DAY(B9)	=MONTH(B9)	=YEAR(B9)	36	72	60	14	=SUM(B9,F9:I9)
10	Event 9	42796	=DAY(B10)	=MONTH(B10)	=YEAR(B10)	6	12	8	1	=SUM(B10,F10:I10)
11	Event 10	42826	=DAY(B11)	=MONTH(B11)	=YEAR(B11)					=SUM(B11,F11:I11)
12			Day	Month	Year	End date				
13	Completion dates during									
14	2016 [Quarter 1]	=COUNTIF(L\$2:L\$11,A14)								
15	2016 [Quarter 2]	=COUNTIF(L\$2:L\$11,A15)								
16	2016 [Quarter 3]	=COUNTIF(L\$2:L\$11,A16)								
17	2016 [Quarter 4]	=COUNTIF(L\$2:L\$11,A17)								
18	2017 [Quarter 1]	=COUNTIF(L\$2:L\$11,A18)								
19	2017 [Quarter 2]	=COUNTIF(L\$2:L\$11,A19)								
20	2017 [Quarter 3]	=COUNTIF(L\$2:L\$11,A20)								

Day Correct function 1 mark
 Month Correct function 1 mark
 Year Correct function 1 mark
 End date Correct calculation 1 mark
 Most efficient method 1 mark

COUNTIF 1 mark
 Correct range to working column 1 mark
 Condition reference to cell in A 1 mark
 Replication All formulae 1 mark

A Candidate, ZZ999, 9999

PUBLISHED

Working

=RIGHT()

K2

,16 characters

1 mark

1 mark

1 mark

Formulae and functions used

		L	M	N	O
1	Full end date	Working			
2	=TEXT(J2," dd mmmmmmmm yyyy")&" "&VLOOKUP(MONTH(J2),\$N\$2:\$O\$13,2,FALSE)&"J"	=RIGHT(K2,16)		1	Quarter 4
3	=TEXT(J3," dd mmmmmmmm yyyy")&" "&VLOOKUP(MONTH(J3),\$N\$2:\$O\$13,2,FALSE)&"J"	=RIGHT(K3,16)		2	Quarter 4
4	=TEXT(J4," dd mmmmmmmm yyyy")&" "&VLOOKUP(MONTH(J4),\$N\$2:\$O\$13,2,FALSE)&"J"	=RIGHT(K4,16)		3	Quarter 4
5	=TEXT(J5," dd mmmmmmmm yyyy")&" "&VLOOKUP(MONTH(J5),\$N\$2:\$O\$13,2,FALSE)&"J"	=RIGHT(K5,16)		4	Quarter 1
6	=TEXT(J6," dd mmmmmmmm yyyy")&" "&VLOOKUP(MONTH(J6),\$N\$2:\$O\$13,2,FALSE)&"J"	=RIGHT(K6,16)		5	Quarter 1
7	=TEXT(J7," dd mmmmmmmm yyyy")&" "&VLOOKUP(MONTH(J7),\$N\$2:\$O\$13,2,FALSE)&"J"	=RIGHT(K7,16)		6	Quarter 1
8	=TEXT(J8," dd mmmmmmmm yyyy")&" "&VLOOKUP(MONTH(J8),\$N\$2:\$O\$13,2,FALSE)&"J"	=RIGHT(K8,16)		7	Quarter 2
9	=TEXT(J9," dd mmmmmmmm yyyy")&" "&VLOOKUP(MONTH(J9),\$N\$2:\$O\$13,2,FALSE)&"J"	=RIGHT(K9,16)		8	Quarter 2
10	=TEXT(J10," dd mmmmmmmm yyyy")&" "&VLOOKUP(MONTH(J10),\$N\$2:\$O\$13,2,FALSE)&"J"	=RIGHT(K10,16)		9	Quarter 2
11	=TEXT(J11," dd mmmmmmmm yyyy")&" "&VLOOKUP(MONTH(J11),\$N\$2:\$O\$13,2,FALSE)&"J"	=RIGHT(K11,16)		11	Quarter 3
12				11	Quarter 3
13				11	Quarter 3
14					
15					
16					
17					
18					
19					
20					

Full end date

- Text Correct function 1 mark
- Reference Correct cell 1 mark
- Space Included after date 1 mark
- Day portion Correct format 1 mark
- Month portion Correct format 1 mark
- Year portion Correct format 1 mark
- Concatenate or & 1 mark
- Concatenate "[" 1 mark
- Lookup Function used 1 mark
- Reference Correct cell 1 mark
- Range Range from file 1 mark
- Concatenate or & 1 mark
- Concatenate "]" 1 mark

A Candidate, Z2999, 3999

Planning time for tasks

	A	B	C	D	E	F	G	H	I	J	K	L
1	Project completion	Start date	Day	Month	Year	Planning	Design	Creation	Event	End date	Full end date	Working
2	Event 8	15/02/2017	15	2	2017	36	72	60	14	16/08/2017	16 August 2017 [Quarter 2]	2017 [Quarter 2]
3	Event 5	01/12/2016	1	12	2016	45	45	72	14	26/05/2017	26 May 2017 [Quarter 1]	2017 [Quarter 1]
4	Event 10	01/04/2017	1	4	2017	3	4	10	7	25/04/2017	25 April 2017 [Quarter 1]	2017 [Quarter 1]
5	Event 9	02/03/2017	2	3	2017	6	12	8	1	29/03/2017	29 March 2017 [Quarter 4]	2017 [Quarter 4]
6	Event 4	30/11/2016	30	11	2016	36	28	42	7	23/03/2017	23 March 2017 [Quarter 4]	2017 [Quarter 4]
7	Event 3	02/11/2016	2	11	2016	30	21	45	7	13/02/2017	13 February 2017 [Quarter 4]	2017 [Quarter 4]
8	Event 7	30/12/2016	30	12	2016	20	10	10	5	13/02/2017	13 February 2017 [Quarter 4]	2017 [Quarter 4]
9	Event 2	16/10/2016	16	10	2016	32	22	50	10	07/02/2017	07 February 2017 [Quarter 4]	2017 [Quarter 4]
10	Event 6	02/12/2016	2	12	2016	2	4	10	2	20/12/2016	20 December 2016 [Quarter 3]	2016 [Quarter 3]
11	Event 1	28/08/2016	28	8	2016	50	24	30	6	16/12/2016	16 December 2016 [Quarter 3]	2016 [Quarter 3]
12												
13	Completion dates during											
14	2016 [Quarter 1]	0										
15	2016 [Quarter 2]	0										
16	2016 [Quarter 3]	2										
17	2016 [Quarter 4]	0										
18	2017 [Quarter 1]	2										
19	2017 [Quarter 2]	1										
20	2017 [Quarter 3]	0										

Sorted
 On end date with integrity 1 mark
 Most recent at top 1 mark

Extract printed A1 to L20 fully visible 1 mark
 Gridlines visible 1 mark

	A	B
	Completion dates during	
13		
16	2016 [Quarter 3]	2
18	2017 [Quarter 1]	2
19	2017 [Quarter 2]	1

Correct data extracted 1 mark
 Correct cell range, fully visible, row & column headings and gridlines 1 mark

PUBLISHED

Header –100% correct & printed as specified

1 mark

Corrected values used

	A	B	C	D	E	F	G	H	I	J	K	L
1	Project completion	Start date	Day	Month	Year	Planning	Design	Creation	Event	End date	Full end date	Working
2	Event 8	15/02/2017	15	2	2017	36	72	60	14	16/08/2017	16 August 2017 [Quarter 2]	2017 [Quarter 2]
3	Event 5	01/12/2016	1	12	2016	45	45	72	14	26/05/2017	26 May 2017 [Quarter 1]	2017 [Quarter 1]
4	Event 10	01/04/2017	1	4	2017	3	4	10	7	25/04/2017	25 April 2017 [Quarter 1]	2017 [Quarter 1]
5	Event 9	02/03/2017	2	3	2017	6	12	8	1	29/03/2017	29 March 2017 [Quarter 4]	2016 [Quarter 4]
6	Event 4	30/11/2016	30	11	2016	36	28	42	7	23/03/2017	23 March 2017 [Quarter 4]	2016 [Quarter 4]
7	Event 3	02/11/2016	2	11	2016	30	21	45	7	13/02/2017	13 February 2017 [Quarter 4]	2016 [Quarter 4]
8	Event 7	30/12/2016	30	12	2016	20	10	10	5	13/02/2017	13 February 2017 [Quarter 4]	2016 [Quarter 4]
9	Event 2	16/10/2016	16	10	2016	32	22	50	10	07/02/2017	07 February 2017 [Quarter 4]	2016 [Quarter 4]
10	Event 6	02/12/2016	2	12	2016	2	4	10	2	20/12/2016	20 December 2016 [Quarter 3]	2016 [Quarter 3]
11	Event 1	28/08/2016	28	8	2016	50	24	30	6	16/12/2016	16 December 2016 [Quarter 3]	2016 [Quarter 3]
12												
13	Completion dates during											
14	2016 [Quarter 1]		0									
15	2016 [Quarter 2]		0									
16	2016 [Quarter 3]		2									
17	2016 [Quarter 4]		5									
18	2017 [Quarter 1]		2									
19	2017 [Quarter 2]		1									
20	2017 [Quarter 3]		0									

Working
 Correct 5 events changed 1 mark
 With years changed from 2017 to 2016 1 mark
 No changes to any other data (esp. Full end date) 1 mark

Correct values shown for count 1 mark

Header 100% correct & printed as specified 1 mark

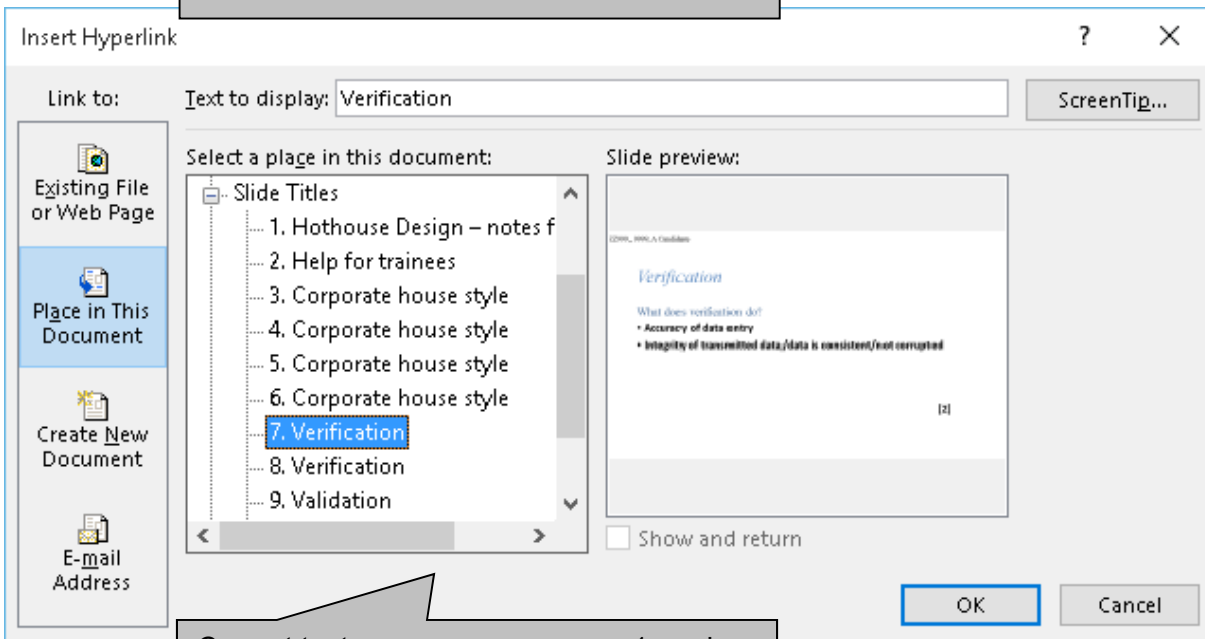
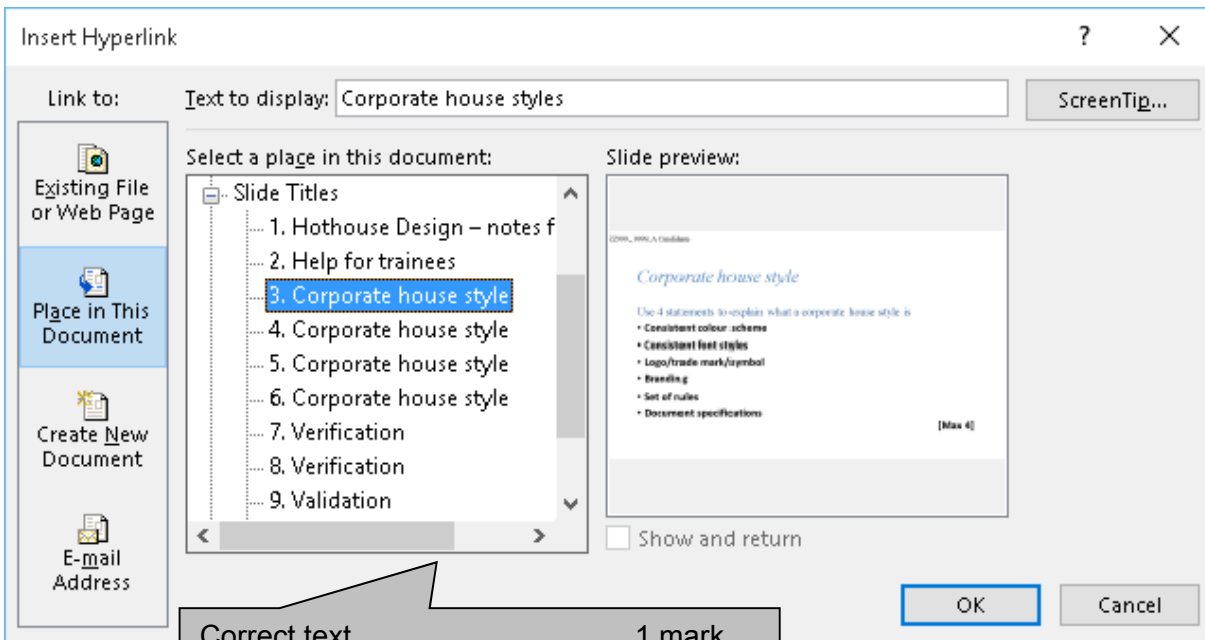
Corrected formulae and functions used

	L
1	Working
2	=IF(LEFT(RIGHT(K2,2),1)="4",TEXT(J2,"yyyy")-1 & RIGHT(K2,12),RIGHT(K2,16))
3	=IF(LEFT(RIGHT(K3,2),1)="4",TEXT(J3,"yyyy")-1 & RIGHT(K3,12),RIGHT(K3,16))
4	=IF(LEFT(RIGHT(K4,2),1)="4",TEXT(J4,"yyyy")-1 & RIGHT(K4,12),RIGHT(K4,16))
5	=IF(LEFT(RIGHT(K5,2),1)="4",TEXT(J5,"yyyy")-1 & RIGHT(K5,12),RIGHT(K5,16))
6	=IF(LEFT(RIGHT(K6,2),1)="4",TEXT(J6,"yyyy")-1 & RIGHT(K6,12),RIGHT(K6,16))
7	=IF(LEFT(RIGHT(K7,2),1)="4",TEXT(J7,"yyyy")-1 & RIGHT(K7,12),RIGHT(K7,16))
8	=IF(LEFT(RIGHT(K8,2),1)="4",TEXT(J8,"yyyy")-1 & RIGHT(K8,12),RIGHT(K8,16))
9	=IF(LEFT(RIGHT(K9,2),1)="4",TEXT(J9,"yyyy")-1 & RIGHT(K9,12),RIGHT(K9,16))
10	=IF(LEFT(RIGHT(K10,2),1)="4",TEXT(J10,"yyyy")-1 & RIGHT(K10,12),RIGHT(K10,16))
11	=IF(LEFT(RIGHT(K11,2),1)="4",TEXT(J11,"yyyy")-1 & RIGHT(K11,12),RIGHT(K11,16))

Working

- =IF () function 1 mark
- Extracting quarter no (4 marks) e.g.:**
- LEFT(,1) 1 mark
- RIGHT(K2,2) 1 mark
- "4" 1 mark
- Corrected version if test true (@ marks)**
- TEXT () 1 mark
- J2 abs reference 1 mark
- "yyyy" format 1 mark
- 1 1 mark
- Concatenate or & 1 mark
- =RIGHT() 1 mark
- K2 1 mark
- ,12 characters 1 mark
- Else if incorrect**
- Same function as previous print 1 mark
- Whole function**
- Most efficient working solution 1 mark

Evidence document



Insert Hyperlink

Link to: Text to display: Validation ScreenTig...

Select a place in this document:

- Slide Titles
- 1. Hothouse Design – notes f
- 2. Help for trainees
- 3. Corporate house style
- 4. Corporate house style
- 5. Corporate house style
- 6. Corporate house style
- 7. Verification
- 8. Verification
- 9. Validation

Slide preview:

Validation

- What does validation check?
- Data entered is reasonable

Correct text... 1 mark
 ...Internal - to correct slide 1 mark

OK Cancel

Edit Hyperlink

Link to: Text to display: Contact the office ScreenTig...

Look in: Worked

- Current Folder
- \$Step_4.pptx
- n11notes_answers.rtf
- n17charity_worked.xlsx
- Step_4.pdf
- Step_4.pptx
- Browsed Pages
- Recent Files

Address: http://www.hothouse-design.co.uk/ Remove Link...

Correct text... 1 mark
 ...Web page 1 mark
 ...Correct URL 1 mark

OK Cancel