

CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

MARK SCHEME for the October/November 2013 series

**0417 INFORMATION AND COMMUNICATION
TECHNOLOGY**

0417/03

Paper 3 (Practical Test B), maximum raw mark 80

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 October/November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

Page 2	Mark Scheme	Syllabus	Paper
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Header	Left	Week 13	1 mark
	Right	Last revision on & date and time	1 mark
Footer	Left	Name & numbers	1 mark

Week 13 Last revision on 05/02/2011 13:04

The Xtreme Adventure Holiday Company

Rate of pay		
A	€8.00	
B	€8.25	
C	€9.50	
D	€10.25	
Job codes		
S	Ski Instructor	
TB	Trainee Snowboard Instr.	
H	Host/Hostess	
TS	Trainee Ski Instructor	
TA	Transport assistant	
A	Administration/Office	
B	Snowboard Instructor	
SA	Senior Administrator	
TM	Transport Manager	

A Student, Centre XX999, Candidate 99999

Top row Merge cells A1 to J1 1 mark
 White font on red background, centre aligned 1 mark
 18 point sans-serif font 1 mark

Rate of pay Euros 2dp 1 mark
 Printout Portrait 1 mark
 1 page wide & fully visible 1 mark
 Print area (top 2 tables) 1 mark

	A	B	C	D	E	F	G
20	Employees						
21	Name	Job code	Pay code	Job description	Contract hours	Hours worked	Rate
22	Luca Gisi	B	B	=VLOOKUP(B22,code,2,FALSE)	25	25	=VLOOKUP(C22,\$A\$4:\$B\$7,2,FALSE)
23	Livio Stager	S		=VLOOKUP(B23,code,2,FALSE)	25	25	=VLOOKUP(C23,\$A\$4:\$B\$7,2,FALSE)
				=VLOOKUP(B24,code,2,FALSE)	12	12	=VLOOKUP(C24,\$A\$4:\$B\$7,2,FALSE)
				=VLOOKUP(B25,code,2,FALSE)	25	25	=VLOOKUP(C25,\$A\$4:\$B\$7,2,FALSE)
				=VLOOKUP(B26,code,2,FALSE)	25	28	=VLOOKUP(C26,\$A\$4:\$B\$7,2,FALSE)
				=VLOOKUP(B27,code,2,FALSE)	20		=VLOOKUP(C27,\$A\$4:\$B\$7,2,FALSE)
				=VLOOKUP(B28,code,2,FALSE)	25		=VLOOKUP(C28,\$A\$4:\$B\$7,2,FALSE)
29	Alessandro Messerli	S	B	=VLOOKUP(B29,code,2,FALSE)	25	2	=VLOOKUP(C29,\$A\$4:\$B\$7,2,FALSE)
30	Lara Forrer	B	B	=VLOOKUP(B30,code,2,FALSE)	25	25	=VLOOKUP(C30,\$A\$4:\$B\$7,2,FALSE)
31	Arda Hegler	S	B				=VLOOKUP(C31,\$A\$4:\$B\$7,2,FALSE)
32	Simone Aebi	B	B				=VLOOKUP(C32,\$A\$4:\$B\$7,2,FALSE)
33	Matteo Isch	A	B				=VLOOKUP(C33,\$A\$4:\$B\$7,2,FALSE)
34	Arenwald Wurgler	A	A	=VLOOKUP(B34,code,2,FALSE)	38	38	=VLOOKUP(C34,\$A\$4:\$B\$7,2,FALSE)
35	Julian Bruster	B	C	=VLOOKUP(B35,code,2,FALSE)	30	22	=VLOOKUP(C35,\$A\$4:\$B\$7,2,FALSE)
36	Tim Frueh	B	B	=VLOOKUP(B36,code,2,FALSE)	25	0	=VLOOKUP(C36,\$A\$4:\$B\$7,2,FALSE)
37	Luca Rim	A	B	=VLOOKUP(B37,code,2,FALSE)	12	25	=VLOOKUP(C37,\$A\$4:\$B\$7,2,FALSE)
38	Giulia Ramseyer	S	C	=VLOOKUP(B38,code,2,FALSE)	30	30	=VLOOKUP(C38,\$A\$4:\$B\$7,2,FALSE)
39	Leon Joost	S	B	=VLOOKUP(B39,code,2,FALSE)	25	25	=VLOOKUP(C39,\$A\$4:\$B\$7,2,FALSE)
40	Romina Von Gunten	SA	D	=VLOOKUP(B40,code,2,FALSE)	40	40	=VLOOKUP(C40,\$A\$4:\$B\$7,2,FALSE)
41	Leandro Laqua	S	B	=VLOOKUP(B41,code,2,FALSE)	25	25	=VLOOKUP(C41,\$A\$4:\$B\$7,2,FALSE)
42	Andri Jud	TB	A	=VLOOKUP(B42,code,2,FALSE)	25	28	=VLOOKUP(C42,\$A\$4:\$B\$7,2,FALSE)

Job description	Lookup used	1 mark
	Correct lookup reference	1 mark
	Lookup as relative reference	1 mark
	Correct named range	1 mark
	Correct return column	1 mark

Rate	Lookup used	1 mark
	Correct relative lookup reference	1 mark
	Correct absolute range	1 mark
	Correct return column	1 mark

Page 4	Mark Scheme	Syllabus	Paper
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	A	B	C	D	E	F	G
43	Matteo Nufer	S	B	=VLOOKUP(B43,code,2,FALSE)	25	25	=VLOOKUP(C43,\$A\$4:\$B\$7,2,FALSE)
44	Mia Leupp	B	B	=VLOOKUP(B44,code,2,FALSE)	25	25	=VLOOKUP(C44,\$A\$4:\$B\$7,2,FALSE)
45	Nathan Ganz	S	B	=VLOOKUP(B45,code,2,FALSE)	25	25	=VLOOKUP(C45,\$A\$4:\$B\$7,2,FALSE)
46	Jon Haby	TS	A	=VLOOKUP(B46,code,2,FALSE)	25	25	=VLOOKUP(C46,\$A\$4:\$B\$7,2,FALSE)
47	Matteo Hilty	A	B	=VLOOKUP(B47,code,2,FALSE)	20	20	=VLOOKUP(C47,\$A\$4:\$B\$7,2,FALSE)
48	Noah Truby	TB	A	=VLOOKUP(B48,code,2,FALSE)	25	25	=VLOOKUP(C48,\$A\$4:\$B\$7,2,FALSE)
49	Leonardo Jud	B	B	=VLOOKUP(B49,code,2,FALSE)	12	17	=VLOOKUP(C49,\$A\$4:\$B\$7,2,FALSE)
50	Dekke Gisi	A	B	=VLOOKUP(B50,code,2,FALSE)	25	27	=VLOOKUP(C50,\$A\$4:\$B\$7,2,FALSE)
51	Noah Wurgler	B	B	=VLOOKUP(B51,code,2,FALSE)	20	25	=VLOOKUP(C51,\$A\$4:\$B\$7,2,FALSE)
52	Alice Thoeny	B	B	=VLOOKUP(B52,code,2,FALSE)	25	26	=VLOOKUP(C52,\$A\$4:\$B\$7,2,FALSE)
53	Arne Bircher	TA	A	=VLOOKUP(B53,code,2,FALSE)	10	12	=VLOOKUP(C53,\$A\$4:\$B\$7,2,FALSE)
54	Luca Roser	S	C	=VLOOKUP(B54,code,2,FALSE)	30	30	=VLOOKUP(C54,\$A\$4:\$B\$7,2,FALSE)
55	Raphael Michlig	TA	A	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Cell F63 SUM function in correct cell Correct range (F22:F61) </div>	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 1 mark 1 mark </div>		=VLOOKUP(C55,\$A\$4:\$B\$7,2,FALSE)
56	Nicole Giovanni	B	B				
57	Thomas Tobler	TM	C	=VLOOKUP(B57,code,2,FALSE)		25	=VLOOKUP(C57,\$A\$4:\$B\$7,2,FALSE)
58	Nico Lichty	S	B	=VLOOKUP(B58,code,2,FALSE)		25	=VLOOKUP(C58,\$A\$4:\$B\$7,2,FALSE)
59	Dekke Heitz	TA	A	=VLOOKUP(B59,code,2,FALSE)	12	20	=VLOOKUP(C59,\$A\$4:\$B\$7,2,FALSE)
60	John Zwinky	B	B	=VLOOKUP(B60,code,2,FALSE)	12	12	=VLOOKUP(C60,\$A\$4:\$B\$7,2,FALSE)
61	Camille Oberlin	S	B	=VLOOKUP(B61,code,2,FALSE)	25	25	=VLOOKUP(C61,\$A\$4:\$B\$7,2,FALSE)
62							
63						=SUM(F22:F61)	

Page 5	Mark Scheme	Syllabus	Paper
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	H	I	J
20			
21	Basic pay	Overtime pay	Total pay
22	=G22*F22	=IF(F22>E22,(F22-E22)*G22*0.5,0)	=H22+I22
23	=G23*F23	=IF(F23>E23,(F23-E23)*G23*0.5,0)	=H23+I23
24	=G24*F24	=IF(F24>E24,(F24-E24)*G24*0.5,0)	=H24+I24
25	=G25*F25	=IF(F25>E25,(F25-E25)*G25*0.5,0)	=H25+I25
26	=G26*F26	=IF(F26>E26,(F26-E26)*G26*0.5,0)	=H26+I26
27	=G27*F27	=IF(F27>E27,(F27-E27)*G27*0.5,0)	=H27+I27
28	=G28*F28	=IF(F28>E28,(F28-E28)*G28*0.5,0)	=H28+I28
29	=G29*F29	=IF(F29>E29,(F29-E29)*G29*0.5,0)	=H29+I29
30	=G30*F30	=IF(F30>E30,(F30-E30)*G30*0.5,0)	=H30+I30
31	=G31*F31	=IF(F31>E31,(F31-E31)*G31*0.5,0)	=H31+I31
32	=G32*F32	=IF(F32>E32,(F32-E32)*G32*0.5,0)	=H32+I32
33	=G33*F33	=IF(F33>E33,(F33-E33)*G33*0.5,0)	=H33+I33
34	=G34*F34	=IF(F34>E34,(F34-E34)*G34*0.5,0)	=H34+I34
35	=G35*F35	=IF(F35>E35,(F35-E35)*G35*0.5,0)	=H35+I35
36	=G36*F36	=IF(F36>E36,(F36-E36)*G36*0.5,0)	=H36+I36
37	=G37*F37	=IF(F37>E37,(F37-E37)*G37*0.5,0)	=H37+I37
38	=G38*F38	=IF(F38>E38,(F38-E38)*G38*0.5,0)	=H38+I38
39	=G39*F39	=IF(F39>E39,(F39-E39)*G39*0.5,0)	=H39+I39
40	=G40*F40	=IF(F40>E40,(F40-E40)*G40*0.5,0)	=H40+I40
41	=G41*F41	=IF(F41>E41,(F41-E41)*G41*0.5,0)	=H41+I41
42	=G42*F42	=IF(F42>E42,(F42-E42)*G42*0.5,0)	=H42+I42
43	=G43*F43	=IF(F43>E43,(F43-E43)*G43*0.5,0)	=H43+I43
44	=G44*F44	=IF(F44>E44,(F44-E44)*G44*0.5,0)	=H44+I44
45	=G45*F45	=IF(F45>E45,(F45-E45)*G45*0.5,0)	=H45+I45

Basic Pay	G22*F22 & relative refs	1 mark
Overtime Pay	IF function with brackets Correct condition F22-E22 & brackets *G22*0.5	1 mark 1 mark 1 mark
Total Pay	Returns zero if false Correct calculation	1 mark 1 mark

Page 6	Mark Scheme	Syllabus	Paper
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	H	I	J
46	=G46*F46	=IF(F46>E46,(F46-E46)*G46*0.5,0)	=H46+I46
47	=G47*F47	=IF(F47>E47,(F47-E47)*G47*0.5,0)	=H47+I47
48	=G48*F48	=IF(F48>E48,(F48-E48)*G48*0.5,0)	=H48+I48
49	=G49*F49	=IF(F49>E49,(F49-E49)*G49*0.5,0)	=H49+I49
50	=G50*F50	=IF(F50>E50,(F50-E50)*G50*0.5,0)	=H50+I50
51	=G51*F51	=IF(F51>E51,(F51-E51)*G51*0.5,0)	=H51+I51
52	=G52*F52	=IF(F52>E52,(F52-E52)*G52*0.5,0)	=H52+I52
53	=G53*F53	=IF(F53>E53,(F53-E53)*G53*0.5,0)	=H53+I53
54	=G54*F54	=IF(F54>E54,(F54-E54)*G54*0.5,0)	=H54+I54
55	=G55*F55	=IF(F55>E55,(F55-E55)*G55*0.5,0)	=H55+I55
56	=G56*F56	=IF(F56>E56,(F56-E56)*G56*0.5,0)	=H56+I56
57	=G57*F57	=IF(F57>E57,(F57-E57)*G57*0.5,0)	=H57+I57
58	=G58*F58	=IF(F58>E58,(F58-E58)*G58*0.5,0)	=H58+I58
59	=G59*F59	=IF(F59>E59,(F59-E59)*G59*0.5,0)	=H59+I59
60	=G60*F60	=IF(F60>E60,(F60-E60)*G60*0.5,0)	=H60+I60
61	=G61*F61	=IF(F61>E61,(F61-E61)*G61*0.5,0)	=H61+I61
62			
63			=SUM(J22:J61)

Cell J63 SUM(J22:J61) 1 mark

Deleted Column with Payroll No & rows 3&4
1 mark

Print area A20 to J63 1 mark
 Orientation Landscape & fully visible 1 mark
 Row headings Visible 1 mark
 Column headings Visible 1 mark
 Replication All formulae 1 mark

Page 7	Mark Scheme	Syllabus	Paper
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The Xtreme Adventure Holiday Company

Rate of pay

A	€8.00
B	€8.25
C	€9.50
D	€10.25

Job codes

A	Administration /Office
B	Snowboard Instructor
H	Host /Hostess
S	Ski Instructor
SA	Senior Administrator
TA	Transport Assistant
TB	Trainee Snowboard Instructor
TM	Transport Manager
TS	Trainee Ski Instructor

Employees

Name	Job code	Pay code	Job description	Contract hours	Hours worked	Rate	Basic pay	Overtime pay	Total pay
Luca Gisi	B	B	Snowboard Instructor	25	25	€8.25	€206.25	€0.00	€206.25
Livio Stager	S	B	Ski Instructor Snowboard	25	25	€8.25	€206.25	€0.00	€206.25
Nico Gantert	B	B	Instructor	12	12	€8.25	€99.00	€0.00	€99.00
Fabian Ging	S	B	Ski Instructor	25	25	€8.25	€206.25	€0.00	€206.25
Mattia Polt	S	B	Ski Instructor	25	28	€8.25	€231.00	€12.38	€243.38
Sofia Walp	H	A	Host/Hostess	20	20	€8.00	€160.00	€0.00	€160.00
Laura Haener	S	B	Ski Instructor	25	25	€8.25	€206.25	€0.00	€206.25
Alessandro Messerli	S	B	Ski Instructor Snowboard	25	32	€8.25	€264.00	€28.88	€292.88
Lara Forrer	B	B	Instructor	25	25	€8.25	€206.25	€0.00	€206.25
Arda Hegler	S	B	Ski Instructor Snowboard	25	25	€8.25	€206.25	€0.00	€206.25
Simone Aebi	B	B	Instructor Administration	25	25	€8.25	€206.25	€0.00	€206.25
Matteo Isch	A	B	/Office Administration	12	12	€8.25	€99.00	€0.00	€99.00
Arenwald Wurgler	A	A	/Office Snowboard	38	38	€8.00	€304.00	€0.00	€304.00
Julian Bruster	B	C	Instructor Snowboard	30	22	€9.50	€209.00	€0.00	€209.00
Tim Frueh	B	B	Instructor Administration	25	0	€8.25	€0.00	€0.00	€0.00
Luca Rim	A	B	/Office	12	25	€8.25	€206.25	€53.63	€259.88

Candidate Name Centre Number Candidate Number

Page 8	Mark Scheme				Syllabus		Paper	
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Giulia Ramseyer	S	C	Ski Instructor	30	30	€9.50	€285.00	€0.00	€285.00
Leon Joost	S	B	Ski Instructor	25	25	€8.25	€206.25	€0.00	€206.25
Romina Von Gunten	SA	D	Senior Administrator	40	40	€10.25	€410.00	€0.00	€410.00
Leandro Laqua	S	B	Ski Instructor Trainee	25	25	€8.25	€206.25	€0.00	€206.25
Andri Jud	TB	A	Snowboard Instructor	25	28	€8.00	€224.00	€12.00	€236.00
Matteo Nufer	S	B	Ski Instructor	25	25	€8.25	€206.25	€0.00	€206.25
Mia Leupp	B	B	Snowboard Instructor	25	25	€8.25	€206.25	€0.00	€206.25
Nathan Ganz	S	B	Ski Instructor	25	25	€8.25	€206.25	€0.00	€206.25
Jon Haby	TS	A	Trainee Ski Instructor	25	25	€8.00	€200.00	€0.00	€200.00
Matteo Hilty	A	B	Administration /Office	20	20	€8.25	€165.00	€0.00	€165.00
Noah Truby	TB	A	Trainee Snowboard Instructor	25	25	€8.00	€200.00	€0.00	€200.00
Leonardo Jud	B	B	Snowboard Instructor	12	17	€8.25	€140.25	€20.63	€160.88
Dekke Gisi	A	B	Administration /Office	25	27	€8.25	€222.75	€8.25	€231.00
Noah Wurgler	B	B	Snowboard Instructor	20	25	€8.25	€206.25	€20.63	€226.88
Alice Thoeny	B	B	Transport Instructor	25	26	€8.25	€214.50	€4.13	€218.63
Arne Bircher	TA	A	Assistant	10	12	€8.00	€96.00	€8.00	€104.00
Luca Roser	S	C	Ski Instructor	30	30	€9.50	€285.00	€0.00	€285.00
Raphael Michlig	TA	A	Transport Assistant	12	12	€8.00	€96.00	€0.00	€96.00
Nicole Giovanni	B	B	Snowboard Instructor	20	20	€8.25	€165.00	€0.00	€165.00
Thomas Tobler	TM	C	Transport Manager	25	25	€9.50	€237.50	€0.00	€237.50
Nico Lichty	S	B	Ski Instructor	25	25	€8.25	€206.25	€0.00	€206.25
Dekke Heitz	TA	A	Transport Assistant	12	20	€8.00	€160.00	€32.00	€192.00
John Zwinky	B	B	Snowboard Instructor	12	12	€8.25	€99.00	€0.00	€99.00
Camille Oberlin	S	B	Ski Instructor	25	25	€8.25	€206.25	€0.00	€206.25

933

€8066.50

Job desc	Correct values	1 mark
Format	Euros with 2dp	1 mark
	Hours columns - numeric integer	1 mark
Data entry	All inserted	2 marks
	One page wide, portrait, all visible	1 mark

Candidate Name Centre Number Candidate Number

Page 9	Mark Scheme	Syllabus	Paper
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Week 13

Last revision on 03/05/2013 22:13

The Xtreme Adventure Holiday Company

Employees							
Name	Job description	Hours worked	Rate	Basic Pay	Overtime Pay	Total Pay	
Mattia Polt	Ski Instructor	28	€8.25	€231.00	€12.38	€243.38	
Alessandro Messerli	Ski Instructor	32	€8.25	€264.00	€28.88	€292.88	
Andri Jud	Trainee Snowboard Instructor	28	€8.00	€224.00	€12.00	€236.00	
Leonardo Jud	Snowboard Instructor	17	€8.25	€140.25	€20.63	€160.88	
Noah Wurgler	Snowboard Instructor	25	€8.25	€206.25	€20.63	€226.88	
Alice Thoeny	Snowboard Instructor	26	€8.25	€214.50	€4.13	€218.63	

Extract	Rows 3-19 hidden	1 mark
	Columns B C and E hidden	1 mark
Search	Contains Instructor	1 mark
	Overtime >0	1 mark
	Single page wide, portrait, all visible	1 mark

Candidate Name Centre Number Candidate Number

Page 10	Mark Scheme	Syllabus	Paper
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Table	7 rows and 4 columns	1 mark
Row 1	Top row left 3 cells merged	1 mark
	N13Banner.JPG in left cell	1 mark
	Logo in right cell	1 mark



Row 2	Home button & image	1 mark
Row 3	Ski button & image	1 mark
Row 4	Scuba button & image	1 mark
Row 5	Safari button & image	1 mark
Row 6	Contact us button & image	1 mark
Row 7	Left 2 cells merged	1 mark
	Webpage last edited by & details	1 mark
	In style h1	1 mark
Rows 2-7	Right merged to single cell	1 mark
	DUNE2?????.JPG into right cell	1 mark

Page 11	Mark Scheme	Syllabus	Paper
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Correct stylesheet attached 1 mark

```
<html>
<head>
  <title="The Xtreme Holiday Company Homepage">
  <link rel="stylesheet" type="text/css" href="style9999.css">
</head>
<body>
  <table border="1" style="width:800px height:600px">
    <tr>
```

Table Width 800 Height 600 1 mark 1 mark

```
      <td colspan="3"></td>
      <td></td>
    </tr>
    <tr>
```

Row width Both 176 Accept 22% 1 mark

```
      <td style="width:176px"></td>
      <td style="width:176px"></td>
      <td colspan="2" rowspan="6"></td>
    </tr>
    <tr>
      <td></td>
      <td></td>
    </tr>
    <tr>
      <td></td>
      <td></td>
    </tr>
```

Hyperlink Both button & image Correct address Correct ?subject 1 mark 1 mark 1 mark

```
      <td><a href="mailto:xahc@cie.org.uk?subject=Adventure%20Me%20Up..."></a></td>
      <td><a href="mailto:xahc@cie.org.uk?subject=Adventure%20Me%20Up..."></a></td>
    </tr>
    <tr>
```

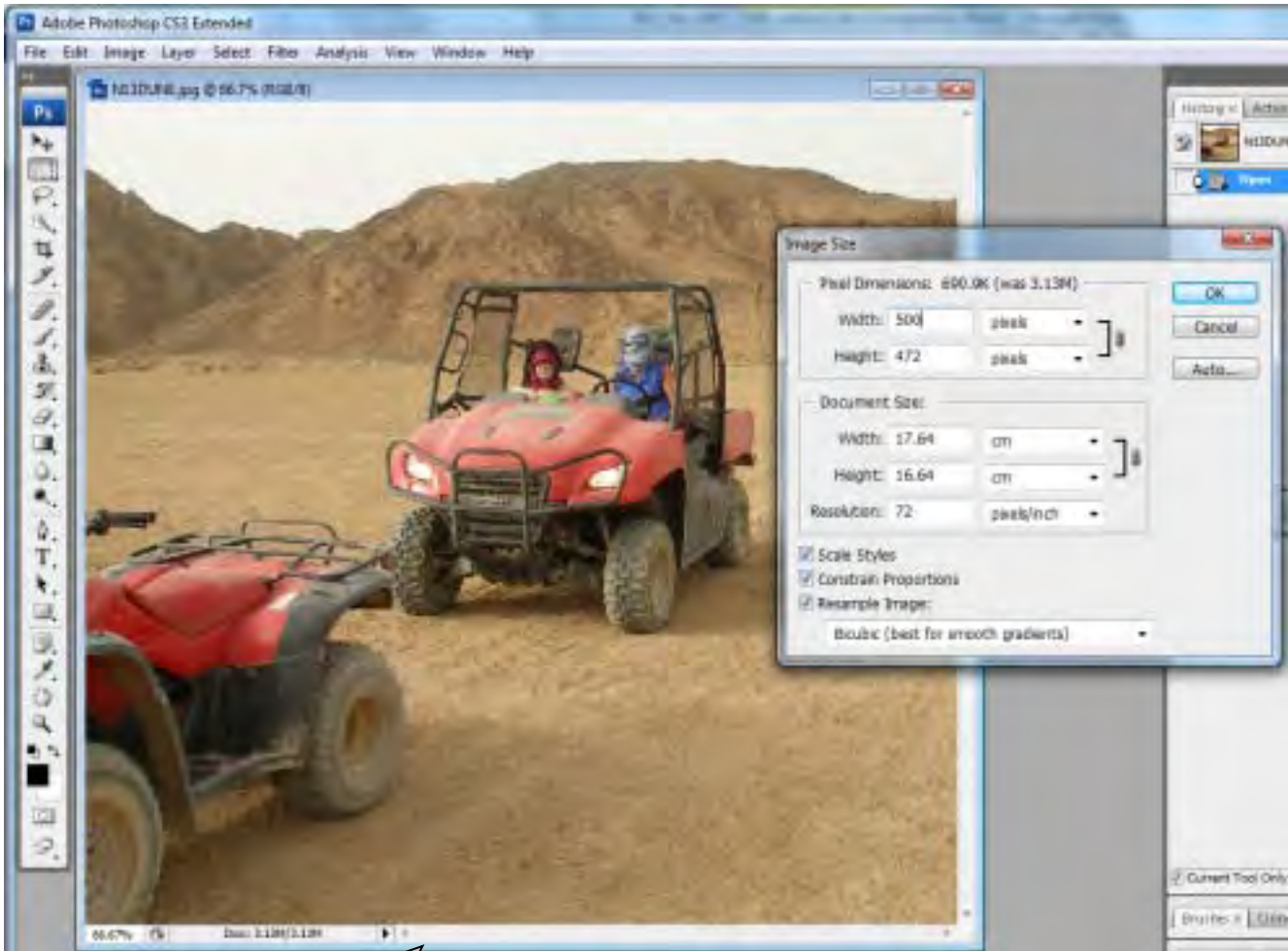
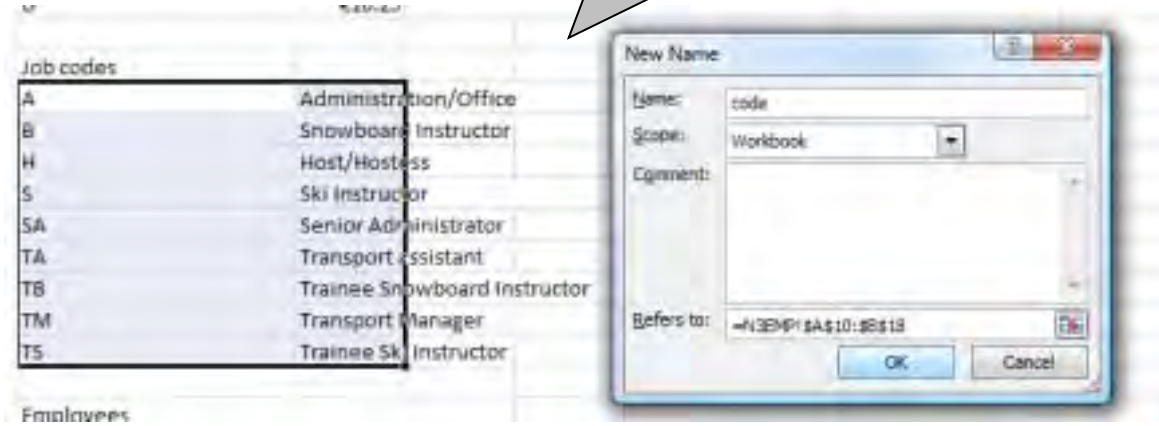
```
      <td colspan="2"><h1>Webpage last edited by A.Candidate, XX999,
9999</h1></td>
    </tr>
  </table>
```

```
</body>
</html>
```

Page 12	Mark Scheme	Syllabus	Paper
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Named range
 Called **code**
 Cells A10 to B18
 1 mark
 1 mark




Evidence document



N13DUNE.jpg
 Resized to 500 pixels wide
 Aspect ratio maintained
 1 mark
 1 mark

Page 13	Mark Scheme	Syllabus	Paper
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Saved as DUNE1 (plus cand no) 1 mark
DUNE2 Reduced Image resolution so that file size <100K 1 mark

 N13DUNE.jpg	19/02/2012 20:38	JPEG image	985 KB
 DUNE19999.jpg	19/02/2012 20:43	JPEG image	212 KB
 DUNE29999.jpg	19/02/2012 20:44	JPEG image	68 KB

Stylesheet
h1 Correct filename 1 mark
colour red 1 mark
"Times New Roman" 1 mark
, Times 1 mark
, serif 1 mark
18 pixels high 1 mark
Alignment – center 1 mark

```

Style9999.css - Notepad
File Edit Format View Help
h1 { color: #FF0000; font-family:"Times New Roman",Times,serif; font-size:18px;
text-align:center }

body { background-color:#CC9966; }
table { border-collapse: collapse; border:4px solid #000080; margin-bottom:1em}
td { border:4px solid #000080; padding:0.33em; spacing:0.33em}

```