

MARK SCHEME for the May/June 2014 series

**0417 INFORMATION AND COMMUNICATION
TECHNOLOGY**

0417/31

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 May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

Candidate name _____ Centre number _____ Candidate number _____

Body	Background image attached	1 mark
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```
body {background-image:url('J1431bg.jpg')}
```

```
h1 {color:#000040;
font-family:Arial,sans-serif;
text-align:center;
font-size:32px}
```

h1	color: #000040	1 mark
	font-family:Arial	1 mark
	,sans-serif	1 mark
	text-align:center	1 mark
	font-size:32px	1 mark

```
h3 {color:#404000;
font-family:serif;
text-align:justify;
font-size:16px;
padding:8px}
```

h3	color: #404000	1 mark
	font-family:serif	1 mark
	text-align:justify	1 mark
	font-size:16px	1 mark

```
p {color:#000080;
font-family:sans-serif;
text-align:justify;
font-size:12px}
```

p	color: #000080	1 mark
	font-family:sans-serif	1 mark
	text-align:justify	1 mark
	font-size:12px	1 mark

```
li {list-style-type:decimal;
text-align:left}
```

li	list-style-type:decimal	1 mark
	text-align:left	1 mark

```
table {width:600px;
height:300px;
border-collapse:collapse;
border:3px solid #FFFF00;
background-color:#6E859F}
```

table	width:600px	1 mark
	height:300px	1 mark
	Border-collapse:collapse	1 mark
	border:3px	1 mark
	Border solid	1 mark
	Colour is #FFFF00	1 mark
	background-color: #6E859F	1 mark

```
td {border:1px solid #FFFF00}
```

table data	border:1px	1 mark
	Border solid	1 mark
	Colour is #FFFF00	1 mark

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Head	Correct stylesheet attached	1 mark
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```
<html>
<head>
  <link rel="stylesheet" type="text/css" href="tmcp.css">
</head>
<body>
  <table>
    <tr>
      <td colspan="2">
        
      </td>
    </tr>
    <tr>
```

Image	Width 300 and Height 300 alt="Manta image"	1 mark 1 mark
-------	---	------------------

```

      <td>
        
      </td>
    </tr>
  </table>
```

The Manta Ray is one of the ocean's gentle giants. These ocean wanderers have a declining population due to unregulated fishing. Some experts even suggest that both species of Manta Ray are getting close to extinction. The two species are known as Manta birostris and Manta alfredi. Manta alfredi is also known as the reef manta which is the smaller of the two species. Manta birostris can weigh up to 3 tons and have a wingspan of 8 metres.

```

    </td>
  </tr>
  <tr>
    <td colspan="2">
      
    </td>
  </tr>
  <tr>
```

Anchor	clicking here	1 mark
	Correct website	1 mark
	Target = "_manta"	1 mark

```

    <td>
      <p>Manta conservation workshops and holidays can be booked through the Xtreme Adventure Holiday Company or by <a href="http://www.xahc.co.uk" target="_manta">clicking here</a>.</p>
    </td>
  </tr>
</table>
```

Email	Correct text & address	1 mark
Click on this link	Correct text & address ?subject=Donation by Candidate Name & Candidate Number"	1 mark 1 mark

```

    <td>
      <p><a href="mailto:tmcp@cie.org.uk">Email</a> us for details of our Manta Education Packs or <a href="mailto:tmcp@cie.org.uk?subject=Donation by A.Candidate 9999">click on this link</a> to discover how to donate to help us preserve these disappearing species.</p>
    </td>
  </tr>
</table>
</body>
</html>
```

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Browser view Screenshot 1 mark



Header **Week 4 - left** 1 mark
Last edited by & cand name - right 1 mark
Footer **Centre & Cand numbers - left** 1 mark
Last edited on & date & at & time - right 1 mark

Top row **Merge & centre align cells A1 to E1** 1 mark
White font 1 mark
Dark grey background 1 mark
24 point sans-serif font 1 mark

The Manta Conservation Project

Format Real with 2 dp 1 mark

Income analysis

Income type	ICode	Total income
Donations	D	R\$ 2,961.68
Research grants	R	R\$ 5,166.30
Education pack sales	E	R\$ 643.19

Format 3 decimal places 1 mark

Regional analysis

Region	RCode	Exchange	Currency	Regional income
Africa	AF	0.242	Rand	R 65.00
Asia	AS	0.317	Yuan	¥3,752.5
Australasia	AU	2.100	Dollar	\$142.50
Europe	EU	2.486	Euro	€1,076.00
North America	NA	2.016	Dollar	\$2,240.50
South America	SA	1.000	Real	R\$ 75.75

Format Rand 2 decimal places 1 mark
Yuan 1 or 2 decimal places 1 mark
Dollars 2 decimal places 1 mark
Euro 2 decimal places 1 mark
Dollars 2 decimal places 1 mark
Real 2 decimal places 1 mark

Income (Real)
15 R\$ 3.63
150 R\$ 47.54
2000 R\$ 4,031.20

Format Real with 2 dp 1 mark

21/01/2014	E	NA	120.5	R\$ 120.50
21/01/2014	D	SA	50	R\$ 50.00
21/01/2014	E	AF	50	R\$ 11.11
21/01/2014	E	AS	25	R\$ 7.92
21/01/2014	E	EU	15	R\$ 37.29
22/01/2014	E	AU	140	R\$ 294.00
22/01/2014	D	EU	1000	R\$ 2,486.15
22/01/2014	D	NA	20	R\$ 40.31
23/01/2014	R	SA	25.75	R\$ 25.75
23/01/2014	E	EU	16	R\$ 39.78
23/01/2014	D	NA	100	R\$ 201.56
23/01/2014	D	AS	55	R\$ 17.43
24/01/2014	E	AS	12.5	R\$ 3.96
25/01/2014	D	AS	10	R\$ 3.17
25/01/2014	E	AU	2.5	R\$ 5.25
26/01/2014	D	EU	20	R\$ 49.72
26/01/2014	R	AS	3500	R\$ 1,109.35

Printout Single page, portrait, all visible 1 mark

Centre number Candidate number

Last edited on date at time

Week 4

Last edited by Candidate name

	Total income	Regional income			
	SUMIF Correct absolute range Lookup cell - relative Correct absolute range	SUMIF Correct With absolute reference Lookup cell - relative Correct absolute range	1 mark 1 mark 1 mark 1 mark	1 mark 1 mark 1 mark 1 mark	
1	Manta Conservation Project				
2					
3	Income analysis				
4	Income type	ICode	Total income		
5	Donations	D	=SUMIF(\$B\$19:\$B\$39,B5,\$E\$19:\$E\$39)		
6	Research grants	R	=SUMIF(\$B\$19:\$B\$39,B6,\$E\$19:\$E\$39)		
7	Education pack sales	E	=SUMIF(\$B\$19:\$B\$39,B7,\$E\$19:\$E\$39)		
8					
9	Regional analysis	Income (Real)	Lookup used Correct relative lookup reference Correct named range Correct return column Multiplied by D19	1 mark 1 mark 1 mark 1 mark 1 mark	
10	Region				Currency Regional Income
11	Africa				Rand =SUMIF(\$C\$19:\$C\$39,B11,\$D\$19:\$D\$39)
12	Asia				Yuan =SUMIF(\$C\$19:\$C\$39,B12,\$D\$19:\$D\$39)
13	Australasia	AU	2.1		Dollars =SUMIF(\$C\$19:\$C\$39,B13,\$D\$19:\$D\$39)
14	Europe	EU	2.48615		Euro =SUMIF(\$C\$19:\$C\$39,B14,\$D\$19:\$D\$39)
15	North America	NA	2.0156		Dollars =SUMIF(\$C\$19:\$C\$39,B15,\$D\$19:\$D\$39)
16	South America	SA	1		Real =SUMIF(\$C\$19:\$C\$39,B16,\$D\$19:\$D\$39)
17					
18	Date	ICode	Rcode	Amount	Income (Real)
19	41659	D	AF	15	=VLOOKUP(C19,Rate,2)*D19
20	41659	D	AS	150	=VLOOKUP(C20,Rate,2)*D20
21	41659	R	NA	2000	=VLOOKUP(C21,Rate,2)*D21
22	41659	D	EU	25	=VLOOKUP(C22,Rate,2)*D22
23	41660	E	NA	120.5	=VLOOKUP(C23,Rate,2)*D23

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Week 4

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24	41660	D	SA	50	=VLOOKUP(C24,Rate,2)*D24
25	41660	E	AF	50	=VLOOKUP(C25,Rate,2)*D25
26	41660	E	AS	25	=VLOOKUP(C26,Rate,2)*D26
27	41660	E	EU	15	=VLOOKUP(C27,Rate,2)*D27
28	41661	E	AU	140	=VLOOKUP(C28,Rate,2)*D28
29	41661	D	EU	1000	=VLOOKUP(C29,Rate,2)*D29
30	41661	D	NA	20	=VLOOKUP(C30,Rate,2)*D30
31	41662	R	SA	25.75	=VLOOKUP(C31,Rate,2)*D31
32	41662	E	EU	16	=VLOOKUP(C32,Rate,2)*D32
33	41662	D	NA	100	=VLOOKUP(C33,Rate,2)*D33
34	41662	D	AS	55	=VLOOKUP(C34,Rate,2)*D34
35	41663	E	AS	12.5	=VLOOKUP(C35,Rate,2)*D35
36	41664	D	AS	10	=VLOOKUP(C36,Rate,2)*D36
37	41664	E	AU	2.5	=VLOOKUP(C37,Rate,2)*D37
38	41665	D	EU	20	=VLOOKUP(C38,Rate,2)*D38
39	41665	R	AS	3500	=VLOOKUP(C39,Rate,2)*D39
40					=SUM(E19:E39)

Centre number	Total income	Correct function & range	1 mark
	Printout	Single landscape page wide, all visible	1 mark
	Replication	All 3 formulae	1 mark

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The screenshot shows an Excel spreadsheet with a table of exchange rates. The table has columns 'RCode', 'Rate', and 'Currency'. The rows are: AF (0.242, Rand), AS (0.317, Yuan), AU (2.100, Dollars), EU (2.485, Euro), NA (2.016, Dollars), and SA (1.000, Real). A 'New Name' dialog box is open, showing 'Name: Rate', 'Scope: Workbook', and 'Refers to: =1143!Income!\$B\$11:\$C\$15'. The dialog box also has a 'Comment:' field and 'OK' and 'Cancel' buttons.

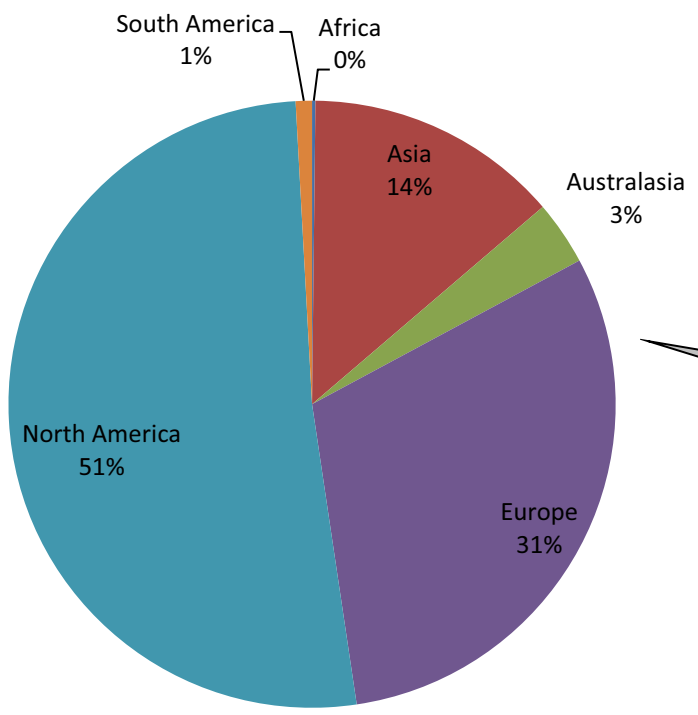
Named range Correct range 1 mark
Correct name 1 mark

Candidate name

Centre number

Candidate number

Regional income by A Candidate, XX999, 9999



Pie chart Labels	Correct chart type	1 mark
	Region names visible	1 mark
	Percentages visible	1 mark
	Title contains Region & Income	1 mark

https://xtremepape.rs/

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Region	Regional income
Africa	=E11*C11
Asia	=E12*C12
Australasia	=E13*C13
Europe	=E14*C14
North America	=E15*C15
South America	=E16*C16

Conversion to Real (maybe from formulae or values view) 1 mark
Correct result for Africa 1 mark
Correct results for all others 1 mark

Region	Regional income
Africa	R\$ 15.74
Asia	R\$ 1,189.38
Australasia	R\$ 299.25
Europe	R\$ 2,675.10
North America	R\$ 4,515.95
South America	R\$ 75.75