MARK SCHEME for the May/June 2013 series

0417 INFORMATION AND COMMUNICATION TECHNOLOGY

0417/32   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 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

	E4	SUM(B4:D4)	1 mark
	E5	SUM(B5:D5)	1 mark
	E6	SUM(B6:D6)	1 mark
	Replication	To other 3 sub-total columns	1 mark
	B7	=B5-B6	1 mark
	Replication	Other months & sub-totals	1 mark

	A	B					F	G	H	I	J
1	**Supa-Scuba Trips 2012-13**										
2	Quarter	1							2		
3	Month	April	May	June	Sub-total		July	August	September	Sub-total	October
4	Number of trips	5	3	3	=SUM(B4:D4)		8	2	7	=SUM(F4:H4)	11
5	Income	16515	15087	12048	=SUM(B5:D5)		42424	3974	36036	=SUM(F5:H5)	38698
6	Expenditure	8896	9379	11724	=SUM(B6:D6)		23975	3521	19014	=SUM(F6:H6)	19345
7	Profit	=B5-B6	=C5-C6	=D5-D6	=E5-E6		=F5-F6	=G5-G6	=H5-H6	=I5-I6	=J5-J6
8											
9	Best month	=MAX(B7:D7,F7:H7,J7:L7,N7:P7)									
10	Worst month	=MIN(B7:D7,F7:H7,J7:L7,N7:P7)									
11	Average profit	=ROUND(AVERAGE(B7:D7,F7:H7,J7:L7,N7:P7),0)									

	B9	=MAX function	1 mark
		(B7:D7,F7:H7,J7:L7,N7:P7)	1 mark
	B10	=MIN function	1 mark
		(B7:D7,F7:H7,J7:L7,N7:P7)	1 mark
	B11	=ROUND(… …)	1 mark
		,0	1 mark
		=AVERAGE(B7:D7,F7:H7,J7:L7,N7:P7)	1 mark

K	L	M	N	O	P	Q	R
3			4				Year
November	December	Sub-total	January	February	March	Sub-total	Total
2	0	=SUM(J4:L4)	8	12	10	=SUM(N4:P4)	=E4+I4+M4+Q4
6532	0	=SUM(J5:L5)	42008	66168	44220	=SUM(N5:P5)	=E5+I5+M5+Q5
4360	0	=SUM(J6:L6)	13172	54143	27003	=SUM(N6:P6)	=E6+I6+M6+Q6
=K5-K6	=L5-L6	=M5-M6	=N5-N6	=O5-O6	=P5-P6	=Q5-Q6	=E7+I7+M7+Q7

Year Totals
= E4+I4+M4+Q4   1 mark
Replicated   1 mark

Row headings   visible   1 mark
Column headings   visible   1 mark
Fully visible   Formulae & labels   1 mark
Orientation   Landscape   1 mark

Row 1   New row inserted   1 mark
Supa-Scuba Trips 2012-13
      100% correct   1 mark
      Set as title   1 mark

Row 2 Merged
    B2:E2, F2:I2, J2:M2, N2:Q2   2 marks
    Grey background   1 mark
    Black 18 point text   1 mark
    Sans-serif centre aligned font   1 mark
    Thin black border   1 mark
Format   Cells A2 & R2 like rest of row 2   1 mark
    Consistency of display   1 mark

Supa-Scuba Trips 2012-13

Quarter	1				2				3				4				Year
Month	April	May	June	Sub-total	July	August	September	Sub-total	October	November	December	Sub-total	January	February	March	Sub-total	Total
Number of trips	5	3	3	11	8	2	7	17	11	2	0	13	8	12	10	30	71
Income	$16,515.00	$15,087.00	$12,048.00	$43,650.00	$42,424.00	$3,974.00	$36,036.00	$82,434.00	$38,698.00	$6,532.00	$0.00	$45,230.00	$42,008.00	$66,168.00	$44,220.00	$152,396.00	$323,710.00
Expenditure	$8,896.00	$9,379.00	$11,724.00	$29,999.00	$23,975.00	$3,521.00	$19,014.00	$46,510.00	$19,345.00	$4,360.00	$0.00	$23,705.00	$13,172.00	$54,143.00	$27,003.00	$94,318.00	$194,532.00
Profit	$7,619.00	$5,708.00	$324.00	$13,651.00	$18,449.00	$453.00	$17,022.00	$35,924.00	$19,353.00	$2,172.00	$0.00	$21,525.00	$28,836.00	$12,025.00	$17,217.00	$58,078.00	$129,178.00

Best month	$28,836.00
Worst month	$0.00
Average profit	$10,765

Formatting   Numeric values in rows 5,6,7,9,10 all in $ 2dp   1 mark
    Average profit displayed as $ 0dp   1 mark
    All currency values right aligned   1 mark
Fit to   Single page, all visible   1 mark

Footer   Left   Name & Numbers   1 mark
   Right   Full path & filename   1 mark

Full file path and file name

Data entry	Dec income $45,000.00	
	Dec expenditure $42,000.00	1 mark
Results	$3000 and $11 015	1 mark
	Single page wide, all visible	1 mark

Supa-Scuba Trips 2012-13

Quarter	1				2				3				4				Year
Month	April	May	June	Sub-total	July	August	September	Sub-total	October	November	December	Sub-total	January	February	March	Sub-total	Total
Number of trips	5	3	3	11	8	2	7	17	11	2	0	13	8	12	10	30	71
Income	$16,515.00	$15,087.00	$12,048.00	$43,650.00	$42,424.00	$3,974.00	$36,036.00	$82,434.00	$38,698.00	$6,532.00	$45,000.00	$90,230.00	$42,008.00	$66,168.00	$44,220.00	$152,396.00	$368,710.00
Expenditure	$8,896.00	$9,379.00	$11,724.00	$29,999.00	$23,975.00	$3,521.00	$19,014.00	$46,510.00	$19,345.00	$4,360.00	$42,000.00	$65,705.00	$13,172.00	$54,143.00	$27,003.00	$94,318.00	$236,532.00
Profit	$7,619.00	$5,708.00	$324.00	$13,651.00	$18,449.00	$453.00	$17,022.00	$35,924.00	$19,353.00	$2,172.00	$3,000.00	$24,525.00	$28,836.00	$12,025.00	$17,217.00	$58,078.00	$132,178.00

Best month	$28,836.00
Worst month	$324.00
Average profit	$11,015

Supa-Scuba Income per month
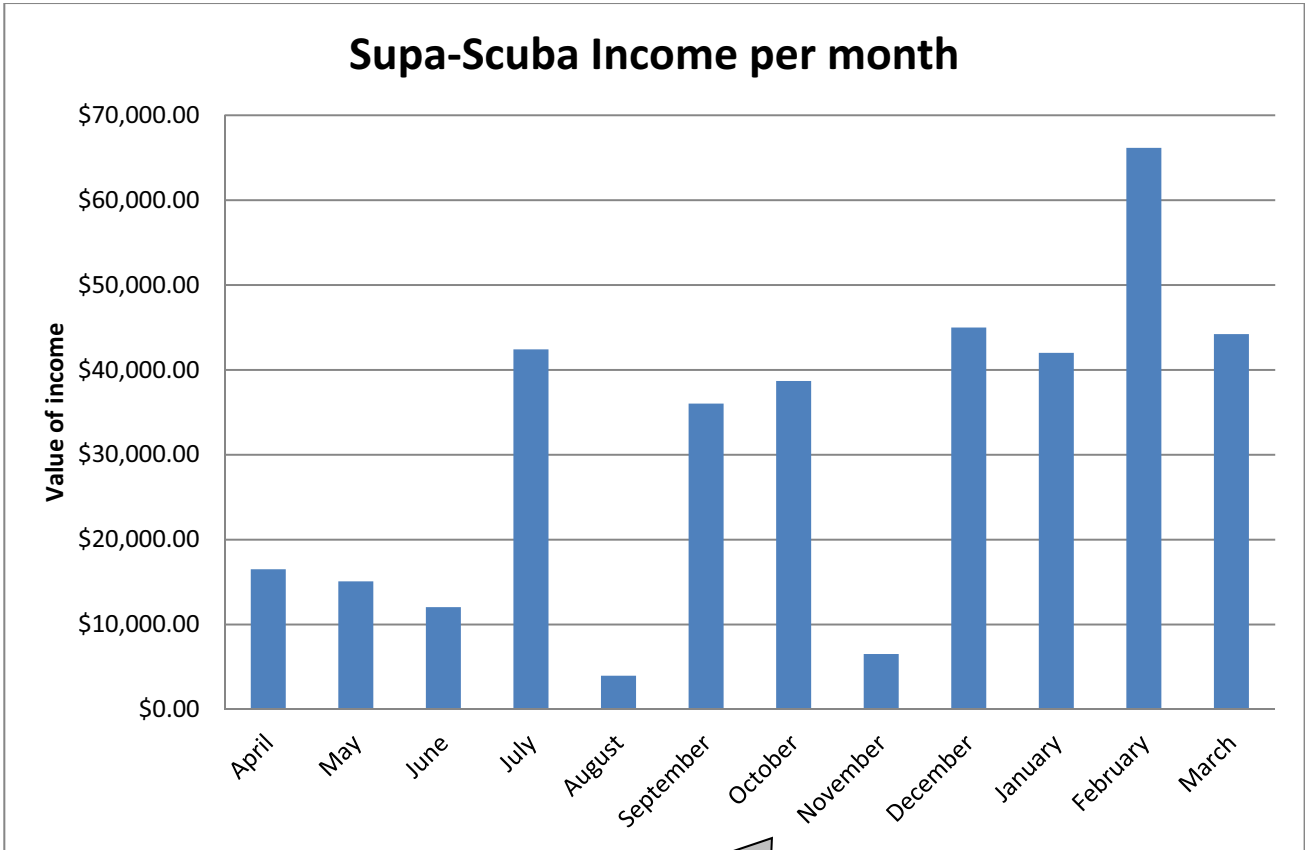
Chart	Correct vertical bar	1 mark
Title	Gives overview	1 mark
Cat axis	Months displayed in full	1 mark
	Title for months	1 mark
Value axis	Appropriate title & labels	1 mark
Legend	Removed	1 mark

Number of trips per quarter

Legend:
- Quarter 1
- Quarter 2
- Quarter 3
- Quarter 4
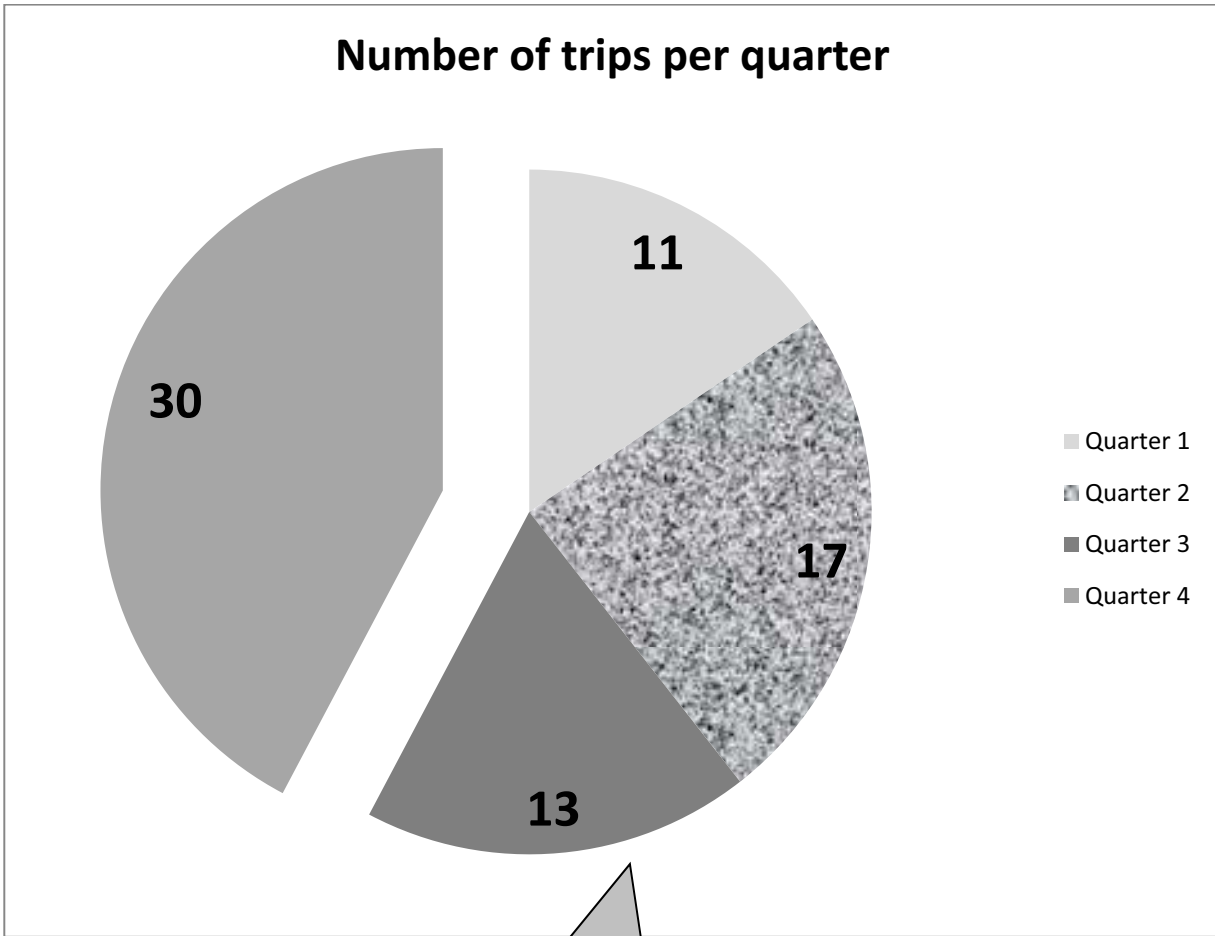
Chart	Pie	1 mark
Title	Appropriate	1 mark
Fill	Clear defined between segments	1 mark
	No colour used	1 mark
Legend	Present with 4 quarters	1 mark
Segments	Display values (not percentages)	1 mark
Extract	Largest segment	1 mark
Values	Correct	2 marks

Evidence document – Changed from:

```
h1    { color: reddy-green; font-family:
       Arial; font-size: mega big;
       text-align: centre }
h2    { color: darkish blue; font-family:
       Arial; font-size: biggish;
       text-align: left }
h3    { color: darkish blue; font-family:
       Arial; font-size: medium;
       text-align: centre }
li    { color: black; font-family:
       Arial; font-size: middle;
       text-align: lett;
       list-style-type: disc }
p     { color: black; font-family:
       Arial; font-size: medium;
       text-align: left }
body { background_colour:
       brightish blue }
```

Stylesheet printed as screenshot		
Filename	'style' & cand number	1 mark
h1		
color	#FFFF00	1 mark
font-family	Trebuchet	1 mark
	,Arial	1 mark
	, sans-serif	1 mark
font-size	24pt	1 mark
text-align	center (US spelling)	1 mark
h2		
font-size	16pt	1 mark
text-align	right	1 mark
h2 & h3		
color	#0000CC	1 mark
h3		
text-align	center (US spelling)	1 mark
h3 & li & p		
font-size	12pt	1 mark

Screenshot showing
Filename

```
h1    { color: #FFFF00; font-family: Trebuchet, Arial, sans-serif; font-size:
24pt; text-align: center }
h2    { color: #0000CC; font-family: Arial; font-size: 16pt; text-align: right }
h3    { color: #0000CC; font-family: Arial; font-size: 12pt; text-align: center }
li    { color: #000000; font-family: Arial; font-size: 12pt; text-align: left;
list-style-type: disc }
p     { color: #000000; font-family: Arial; font-size: 12pt; text-align: left }
body { background-color: #00CCFF }
```

li		
text-align	left	1 mark
body		
hyphen	Changed from underscore	1 mark
color	Changed from colour	1 mark
color	#00CCFF	1 mark

Stylesheet | Correctly attached | 1 mark
Border 2 | 1 mark
Width 100% | 1 mark

```
<!doctype html public "-//w3c//dtd htm       sitional//en">
<html>
<head>
  <title>Supa-Scuba</title>
  <link rel=stylesheet type=text/css href="style9999.css">
</head>
<body><a name="top"></a>
<table border=2 cellspacing=2 cellpadding=2 width=100%>
  <tr valign=middle align=center bgcolor=#000000>
    <td><img src="j13logo.jpg"></td>
    <td colspan=2>
      <h1>Supa-Scuba</h1></td></tr>
  <tr valign=middle align=center>
    <td colspan=3>
      <h3>With over 70% of the world covered in water, you may be missing
opportunities to see some of the world's most fascinating sights. See vibrant
creatures like fish, shrimps, and an array of underwater flora like spectacular
corals. Look to us for adventures in the deep, see a different perspective on the
world.</h3></td></tr>
  <tr valign=middle align=center>
    <td rowspan=3><img src="j13sunset.jpg" width=366></td>
    <td>
      <h2> Jewels of the ocean, see these stars...</h2></td>
    <td><img src="J1332img6.jpg" width=200></td></tr>
```

3 Images | Width set to 200 | 1 mark
Aspect ratio maintained | 1 mark

© Cambrid

```
  <tr valign=middle align=center>
   <td>
     <h2>Try a close up shark experience with gentle nurse sharks</h2></td>
     <td><img src="j1332img5.jpg" width=200></td></tr>
  <tr valign=middle align=center>
   <td>
     <h2>Turtle experiences, join these gentle giants in their natural
habitat</h2></td>
     <td><img src="J1332img1.jpg" width=200></td></tr>
</table>
  <p><a href=" #top">Click here</a> to return to the top of the page.</p>
  <p>Webpage last edited by candidate name, Centre number, candidate number</p>
</body>
</html>
```