



Mark Scheme (Results)

Summer 2021

Pearson Edexcel International GCSE

In Information and Communication Technology
(4IT1)

Paper 02: Practical Paper

Edexcel and BTEC Qualifications

Edexcel and BTEC qualifications are awarded by Pearson, the UK's largest awarding body. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers. For further information visit our qualifications websites at www.edexcel.com or www.btec.co.uk. Alternatively, you can get in touch with us using the details on our contact us page at www.edexcel.com/contactus.

Pearson: helping people progress, everywhere

Pearson aspires to be the world's leading learning company. Our aim is to help everyone progress in their lives through education. We believe in every kind of learning, for all kinds of people, wherever they are in the world. We've been involved in education for over 150 years, and by working across 70 countries, in 100 languages, we have built an international reputation for our commitment to high standards and raising achievement through innovation in education. Find out more about how we can help you and your students at: www.pearson.com/uk

Summer 2021

Question Paper Log Number P66498A

Publications Code 4IT1_02_2106_MS

All the material in this publication is copyright

© Pearson Education Ltd 2021

General Marking Guidance

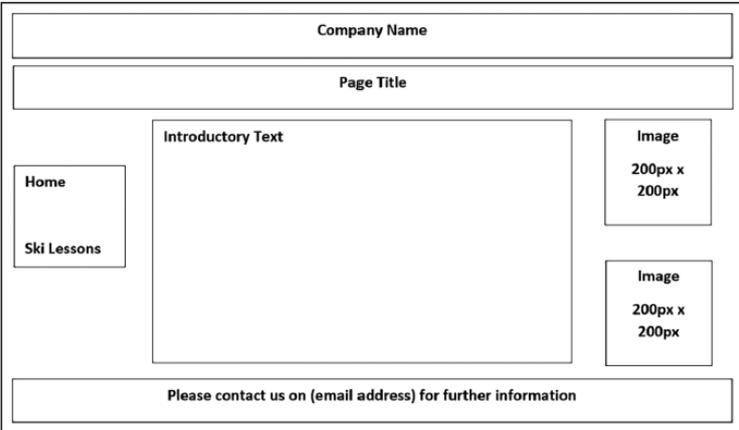
- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

June 2021 – Skiing

Task	Answer	Marks
	Section A	
A1	Graphics	
a	<p>Logo:</p> <ol style="list-style-type: none"> 1. combination of lines or shapes (1) – do not award for a single line or shape 2. clearly represents skiing (1) 3. include 'TSR' - do not award if 'The Ski Run' has been included (1) 	<p>1</p> <p>1</p> <p>1</p>
b	<p><i>Any image edited to:</i></p> <ol style="list-style-type: none"> 1. include the company name The Ski Run (1) <ul style="list-style-type: none"> • allow 'THE SKI RUN' or 'The Ski Run' or 'the ski run' – accept upper case, title case or lower case. • only award the mark for the correct spelling • do not accept 'TSR' • only award the mark if the company name is appropriately sized and positioned • award the mark if the logo includes the company name. 2. include the logo (1) <ul style="list-style-type: none"> • only award the mark if the logo is appropriately sized and positioned. 	<p>1</p> <p>1</p>
	Total for Task A1	5

A2	Database	Marks										
a	<p><i>Data entry form:</i></p> <ol style="list-style-type: none"> 1. Logo from Task A1a is included (1) 2. Logo positioned top right to follow the house style (1) 3. Includes a suitable title – reference to Hotels/Accommodation (1) 4. Hotel ID field is 2 cm wide – award the mark if the screenshot is missing but the field is obviously smaller (1) 5. Hotel Name field is 6 cm wide – only award this mark only if the screenshot shows the width change (1) <p>Do not penalise for spelling errors in the title</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>										
b	<p>Data entry via form:</p> <table border="1" data-bbox="279 840 960 1041"> <tbody> <tr> <td>Hotel ID</td> <td>H201</td> </tr> <tr> <td>Hotel Name</td> <td>Keltischer Berg</td> </tr> <tr> <td>Resort</td> <td>Innsbruck</td> </tr> <tr> <td>Ski Pass</td> <td>Yes</td> </tr> <tr> <td>Price Range</td> <td>Medium</td> </tr> </tbody> </table> <p>Award 2 marks for 5 correct entries Award 1 mark for 3 or 4 correct entries Award no marks for 0, 1 or 2 correct entries</p> <p>Ignore spelling of Hotel Name and Resort</p>	Hotel ID	H201	Hotel Name	Keltischer Berg	Resort	Innsbruck	Ski Pass	Yes	Price Range	Medium	<p>2</p>
Hotel ID	H201											
Hotel Name	Keltischer Berg											
Resort	Innsbruck											
Ski Pass	Yes											
Price Range	Medium											

A2 e (i)	<i>Identify the type of relationship that will be needed between the HOTEL table and the BOOKING table.</i> One to many. Accept alternative notations e.g. 1:M, 1:N	1
e (ii)	<i>Explain one reason why referential integrity should be enforced for relationships in a database.</i> It is a form of data validation (1) so it makes sure that invalid data cannot be entered into any two of the tables (1) System of rules that ensure database data is valid (1) so that you cannot accidentally delete a record in one table if it exists in a related table (1) You cannot accidentally delete a record (1) because it is a foreign key in another table (1) Invalid data cannot be entered (1) because the foreign key must exist as a primary key first (1)	2
e (iii)	<i>State the name of the table that would have its data entered last.</i> BOOKING	1
e (iv)	<i>Explain one reason why Like "*haus*" would be used in a database search</i> To return any occurrence of hotels with haus in their name (1) because without it there would be no hotel with just the name haus (1)	2
Total for Task A2		24

A3	Web authoring	
a (i)	<p>Ignore all spelling and case The home page design:</p>  <p>The home page:</p> <ol style="list-style-type: none"> 1. <code><h1></code> (Company Name – allow TSR) and <code><h2></code> (Page Title – accept any appropriate page title) – h1 and h2 must be included on the correct sections – company name and page title (1) 2. <code><u></code> used on Page Title (1) 3. Background - Blue Gray (#98AFC7) and Introductory Text - White (#FFFFFF) – allow the background mark if the background for the boxes in the design use the correct colour (1) 4. Links appear on the left of the page and appropriate text is in the centre and images (any number of images) are on the right of the page (1) 5. All images are the correct size (200px x 200px) (1) 6. Images are vertically aligned (1) 7. Links appear one above the other (1) 8. One image links to http://www.theskirun.net (1) 9. Email link - mailto: sam@tsr.net (1) 10. Home page consistent with the design structure – ignore the text in the footer (1) 	<p>1</p>

<p>A3 a (ii)</p>	<p>Page title – Reference to Lessons (1)</p> <p>1. HTML table included (do not award marks for a table created in word):</p> <table border="1" data-bbox="280 315 1038 479"> <thead> <tr> <th>Time</th> <th>Area to meet</th> <th>Instructors</th> </tr> </thead> <tbody> <tr> <td>09.00 – 11.00</td> <td>Green area</td> <td>Johann, Kris, Melody</td> </tr> <tr> <td>11.15 – 13.15</td> <td>Blue area</td> <td>Charlotte, Bruno, Maria</td> </tr> <tr> <td>13.30 – 16.00</td> <td>Red area</td> <td>Heidi, Soloman, Ceillan</td> </tr> </tbody> </table> <p>2. Appropriate use of table elements – award the mark if an appropriate table has been created in HTML (1)</p> <p>3. Border set to any appropriate px size (1)</p> <p>4. Table content - relevant information included in the table taken from the WEBSITE document (1)</p>	Time	Area to meet	Instructors	09.00 – 11.00	Green area	Johann, Kris, Melody	11.15 – 13.15	Blue area	Charlotte, Bruno, Maria	13.30 – 16.00	Red area	Heidi, Soloman, Ceillan	<p>1</p> <p>1</p> <p>1</p> <p>1</p>
Time	Area to meet	Instructors												
09.00 – 11.00	Green area	Johann, Kris, Melody												
11.15 – 13.15	Blue area	Charlotte, Bruno, Maria												
13.30 – 16.00	Red area	Heidi, Soloman, Ceillan												
<p>a (iii)</p>	<p>HTML shows functioning link from Home page to Ski Lessons page OR functioning link from Ski Lessons page to Home page</p> <p>xxxxxx</p>	<p>1</p>												
<p>b</p>	<p>HTML changes:</p> <p>1. Any text element colour changed to – Indigo (#4B0082) (1)</p> <p>2. Right align the contact details (email address) (1)</p> <p>Award these marks if the candidate has presented the final web page with the changes showing. Accept the change of text colour if it shows blue.</p> <p>Do not award the right align mark for anything other than the footer section.</p>	<p>1</p> <p>1</p>												
<p>c (i)</p>	<p></p> <p>State one reason why the code will not display the image</p> <p>There are no " " around the image – the image will not display</p> <p></p>	<p>1</p>												

<p>A3 c (ii)</p>	<p><i>Explain one reason why alt text has been used on the image</i></p> <p>If the image does not display (1) then users would still know what the image is (1)</p> <p>Some people are visually impaired (1) which means they will still know what the image is (1)</p> <p>Some people have limited bandwidth (1) so they would not be able to download the image data (1)</p> <p>Images provide context to the information presented (1) which makes it clear to users what is being shown (1)</p> <p>Images are often used to provide information that is not included in the main text (1) so users can see still be provided with the full information (1)</p>	<p>2</p>
<p>c (iii)</p>	<p><i>Give one advantage of using a template when setting up web pages</i></p> <p>To ensure consistency between pages</p> <p>Saves time (accept quicker)</p> <p>Easily follows house style</p> <p>The developer can concentrate on the content / does not have to think about the placement and style</p>	<p>1</p>
<p>Total for Task A3</p>		<p>21</p>

Task	Answer	Marks																																																																																																																								
	Section B																																																																																																																									
B1	Spreadsheets																																																																																																																									
	<table border="1"> <thead> <tr> <th></th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> </tr> </thead> <tbody> <tr> <td>1</td> <td colspan="5" style="text-align: center;">Ski Information 2021</td> </tr> <tr> <td>3</td> <td>Member Name</td> <td>Member Type</td> <td>Equipment Hire</td> <td>Ski Pass</td> <td>Total Cost</td> </tr> <tr> <td>4</td> <td>Pascal</td> <td>Level 1 (Beginners)</td> <td>€ 230</td> <td>€ 150</td> <td>€ 380</td> </tr> <tr> <td>5</td> <td>Laila</td> <td>Level 2 (Intermediate)</td> <td>€ 280</td> <td>€ 150</td> <td>€ 430</td> </tr> <tr> <td>6</td> <td>Zahid</td> <td>Level 3 (Advanced)</td> <td>€ 340</td> <td>€ 120</td> <td>€ 460</td> </tr> <tr> <td>7</td> <td>Preety</td> <td>Level 1 (Beginners)</td> <td>€ 230</td> <td>€ 150</td> <td>€ 380</td> </tr> <tr> <td>8</td> <td>Baljinder</td> <td>Level 1 (Beginners)</td> <td>€ 230</td> <td>€ 150</td> <td>€ 380</td> </tr> <tr> <td>9</td> <td>Pierre</td> <td>Level 2 (Intermediate)</td> <td>€ 280</td> <td>€ 150</td> <td>€ 430</td> </tr> <tr> <td>10</td> <td>Emmanuel</td> <td>Level 3 (Advanced)</td> <td>€ 340</td> <td>€ 120</td> <td>€ 460</td> </tr> <tr> <td>11</td> <td>Arlo</td> <td>Level 3 (Advanced)</td> <td>€ 340</td> <td>€ 120</td> <td>€ 460</td> </tr> <tr> <td>12</td> <td>Polly</td> <td>Level 2 (Intermediate)</td> <td>€ 280</td> <td>€ 150</td> <td>€ 430</td> </tr> <tr> <td>13</td> <td>Johann</td> <td>Level 3 (Advanced)</td> <td>€ 340</td> <td>€ 120</td> <td>€ 460</td> </tr> <tr> <td>14</td> <td>Shay</td> <td>Level 2 (Intermediate)</td> <td>€ 280</td> <td>€ 150</td> <td>€ 430</td> </tr> <tr> <td>15</td> <td>Connor</td> <td>Level 1 (Beginners)</td> <td>€ 230</td> <td>€ 150</td> <td>€ 380</td> </tr> <tr> <td>16</td> <td>Ziggy</td> <td>Level 1 (Beginners)</td> <td>€ 230</td> <td>€ 150</td> <td>€ 380</td> </tr> <tr> <td>17</td> <td>Luna</td> <td>Level 3 (Advanced)</td> <td>€ 340</td> <td>€ 120</td> <td>€ 460</td> </tr> <tr> <td>18</td> <td>Aashish</td> <td>Level 2 (Intermediate)</td> <td>€ 280</td> <td>€ 150</td> <td>€ 430</td> </tr> <tr> <td>19</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>20</td> <td colspan="2">Total Cost of Equipment Hire</td> <td>€ 4,250</td> <td></td> <td></td> </tr> </tbody> </table>		A	B	C	D	E	1	Ski Information 2021					3	Member Name	Member Type	Equipment Hire	Ski Pass	Total Cost	4	Pascal	Level 1 (Beginners)	€ 230	€ 150	€ 380	5	Laila	Level 2 (Intermediate)	€ 280	€ 150	€ 430	6	Zahid	Level 3 (Advanced)	€ 340	€ 120	€ 460	7	Preety	Level 1 (Beginners)	€ 230	€ 150	€ 380	8	Baljinder	Level 1 (Beginners)	€ 230	€ 150	€ 380	9	Pierre	Level 2 (Intermediate)	€ 280	€ 150	€ 430	10	Emmanuel	Level 3 (Advanced)	€ 340	€ 120	€ 460	11	Arlo	Level 3 (Advanced)	€ 340	€ 120	€ 460	12	Polly	Level 2 (Intermediate)	€ 280	€ 150	€ 430	13	Johann	Level 3 (Advanced)	€ 340	€ 120	€ 460	14	Shay	Level 2 (Intermediate)	€ 280	€ 150	€ 430	15	Connor	Level 1 (Beginners)	€ 230	€ 150	€ 380	16	Ziggy	Level 1 (Beginners)	€ 230	€ 150	€ 380	17	Luna	Level 3 (Advanced)	€ 340	€ 120	€ 460	18	Aashish	Level 2 (Intermediate)	€ 280	€ 150	€ 430	19						20	Total Cost of Equipment Hire		€ 4,250			
	A	B	C	D	E																																																																																																																					
1	Ski Information 2021																																																																																																																									
3	Member Name	Member Type	Equipment Hire	Ski Pass	Total Cost																																																																																																																					
4	Pascal	Level 1 (Beginners)	€ 230	€ 150	€ 380																																																																																																																					
5	Laila	Level 2 (Intermediate)	€ 280	€ 150	€ 430																																																																																																																					
6	Zahid	Level 3 (Advanced)	€ 340	€ 120	€ 460																																																																																																																					
7	Preety	Level 1 (Beginners)	€ 230	€ 150	€ 380																																																																																																																					
8	Baljinder	Level 1 (Beginners)	€ 230	€ 150	€ 380																																																																																																																					
9	Pierre	Level 2 (Intermediate)	€ 280	€ 150	€ 430																																																																																																																					
10	Emmanuel	Level 3 (Advanced)	€ 340	€ 120	€ 460																																																																																																																					
11	Arlo	Level 3 (Advanced)	€ 340	€ 120	€ 460																																																																																																																					
12	Polly	Level 2 (Intermediate)	€ 280	€ 150	€ 430																																																																																																																					
13	Johann	Level 3 (Advanced)	€ 340	€ 120	€ 460																																																																																																																					
14	Shay	Level 2 (Intermediate)	€ 280	€ 150	€ 430																																																																																																																					
15	Connor	Level 1 (Beginners)	€ 230	€ 150	€ 380																																																																																																																					
16	Ziggy	Level 1 (Beginners)	€ 230	€ 150	€ 380																																																																																																																					
17	Luna	Level 3 (Advanced)	€ 340	€ 120	€ 460																																																																																																																					
18	Aashish	Level 2 (Intermediate)	€ 280	€ 150	€ 430																																																																																																																					
19																																																																																																																										
20	Total Cost of Equipment Hire		€ 4,250																																																																																																																							
a (i)	New row inserted at the top of the spreadsheet and include the heading 'Ski Information 2021'	1																																																																																																																								
a (ii)	Row 1 merged and centred (A1:E1)	1																																																																																																																								
a (iii)	Heading formatted: <ul style="list-style-type: none"> • serif • bold • larger size font than the rest of the text 	1																																																																																																																								
a (iv)	Header: Completed: date of exam (from 26/04/2021)	1																																																																																																																								
a (v)	New row inserted with reduced height (as row 2) Award the mark if any noticeable reduction has been made to the height Only award the mark if row labels or gridlines are shown	1																																																																																																																								

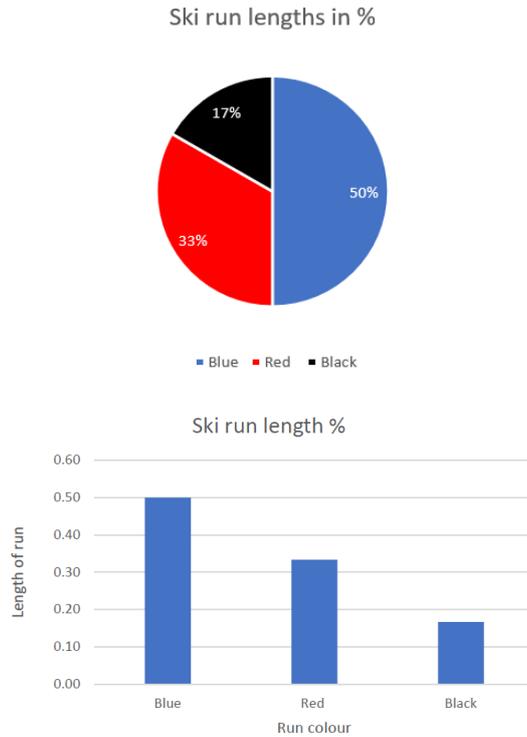
B3
a

Suitable (pie) chart that includes the percentage of the ski run length

1. Has a suitable title (e.g. Reference to Ski Run Length) (1)
2. Includes suitable labels showing the values (50, 33, 17) (1)
3. Includes % (1)

1
1
1

The % symbol must either be in the title **or** on the segments



The bar chart was awarded 2 marks:
 Suitable title refers to ski run length (1)
 Suitable labels showing values – bars should have included the exact values so this mark is not awarded (0)
 The title includes the % (1)

b

Display **Member Name**, **Member Type** and **Ski Pass cost** (A, B and D only)

1

Ski Information 2021		
Member Name	Member Type	Ski Pass
Pascal	Level 1 (Beginners)	€ 150
Laia	Level 2 (Intermediate)	€ 150
Zahid	Level 3 (Advanced)	€ 120
Preety	Level 1 (Beginners)	€ 150
Baljinder	Level 1 (Beginners)	€ 150
Pierre	Level 2 (Intermediate)	€ 150
Emmanuel	Level 3 (Advanced)	€ 120
Arlo	Level 3 (Advanced)	€ 120
Polly	Level 2 (Intermediate)	€ 150
Johann	Level 3 (Advanced)	€ 120
Shay	Level 2 (Intermediate)	€ 150
Connor	Level 1 (Beginners)	€ 150
Ziggy	Level 1 (Beginners)	€ 150
Luna	Level 3 (Advanced)	€ 120
Aashish	Level 2 (Intermediate)	€ 150

Do not penalise if there is additional information at the bottom of the spreadsheet.

B3

c (i)

	A	B
1	Hotel Star Ratings	
2	Hotel Name	Star Rating
3	Das Konservatorium	5
4	Haus Montain	3
5	Alpen Haus	3
6	Keltisch Resort	5
7	Hotel Flussfer	4
8	Haus Wald	4
9	Hotel Ski	5
10	Hotel mit grünem Blick	5
11	Skigebiet	4
12	Die Hütte	3
13	Haus Sloeden	5
14	Gurgl ski resort	3
15		=COUNTIF(B3:B14,B7)

=COUNTIF(B3:B14,B7) has been used in cell B15

For the description, award **one** mark for any 3 of:

1. It looks in the range of cells B3 to B14
2. It compares the value of the cells to match the content of cell B7 (which is 4 star rating)
3. It returns a value of 3

OR

1. It compares the values in the range B3:B14
2. With the value in B7
3. And returns the number of matches

Must refer to given example rather just generic comments

1

1

1

c (ii)

	A	B
1	Ski runs	
2	Total length in km	108
3		
4	Ski run type	Length in km
5	Blue	54
6	Red	36
7	Black	18

State the feature labelled A
Named range

1

Total for Task B3**8**

B4
a

1. Heading (Welcome to the Ski Run) **and** sub-heading (Ski lessons offered:) formatted appropriately

1

2. Use of bullets/sub bullets to match instructions

1

Welcome to The Ski Run

Ski lessons offered:

- private
 - must be pre-booked
 - requires a 10% deposit

- group
 - beginners
 - intermediate
 - advanced

Sam's Ski School			
Private Ski Lessons		2020/2021	
2 hours am	200€	pm	210€
3 hours am	240€	pm	220€
4 hours am	300€		
5 hours am	368€		
6 hours am	420€		
Group Ski Lessons		2020/2021	
1 day	100€	5 days	282€
3 days	216€	6 days	308€
4 days	254€	Extra day	50€

3. Appropriate number of columns and rows (1)

1

4. Any evidence of merging cells (1)

1

5. Cells merged follow the design (1)

1

- Sam's Ski School
- Private Ski Lessons
- Group Ski Lessons
- Blank section

6. Sam's Ski School heading – centred horizontally **and** vertically (1)

1

7. Other alignment (1)

1

- Private Ski Lessons **and** Group Ski Lessons – left aligned
- Dates appear to the right of the rows

8. Text colour – appropriate use of colour contrast on the content of the cells (1)

1

9. Sam's Ski School – size 28 **and** serif font (1)

1

10. Appropriate use of shading that follows the design (1)

1

11. Content – time **and** money cells (1)

1

- Sans-serif font
- Smaller font size than headings
- Euro symbol

12. The table follows the provided design (1)

1

13. The fact sheet is fit for purpose (1)

1

<p>B4 b (i)</p>	<p><i>Explain one improvement you would make to the table.</i></p> <p>Changing colours of the background and text (1) so that the text is clearer to read (1)</p> <p>Different use of font styles, sizes, enhancements (1) so that the text stands out more when reading (1)</p> <p>Size of table due to font size choices (1) so the information is clearly displayed (1)</p> <p>Learners will provide their own improvements with an appropriate expansion</p>	<p>2</p>
<p>b (ii)</p>	<p><i>Explain one reason why 'Save As' is used rather than 'Save' when saving a file.</i></p> <p>Save as allows you to change the filename (1) so that you can save a file with something other than the default name provided (1)</p> <p>Save as allows you to change the file destination (1) so that you can save a file anywhere other than the default destination (1)</p> <p>Save as allows you to change the file format (1) so that you can save a file in any format other than the default format (1)</p> <p>Save as allows for version control (1) so you can go back to earlier versions (1)</p>	<p>2</p>
<p>b (iii)</p>	<p><i>Spelling and grammar tools have been used to check some text.</i></p> <p><i>Explain one reason why proofreading is still required.</i></p> <p>The software may be set to a different country (1) so although the word is spelt correctly in that language, the software thinks it is an error (1)</p> <p>The word used may be a name (1) which as there are so many different names it is impossible for the software to recognise it (1)</p> <p>The word may be so badly spelt (1) which means the software has no idea of what the word should be so won't recognise it (1)</p> <p>The word may be a homonym/spelt correctly (1) but not in the right context (1)</p>	<p>2</p>
<p style="text-align: right;">Total for Task B4</p>		<p>19</p>

Pearson Education Limited. Registered company number 872828
with its registered office at 80 Strand, London, WC2R 0RL, United Kingdom