



**General Certificate of Secondary Education
June 2010**

**Information and Communication
Technology**

3528/H

**Specification B
Short Course
Higher Tier**

Final

Mark Scheme

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of candidates' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

Further copies of this Mark Scheme are available to download from the AQA Website: www.aqa.org.uk

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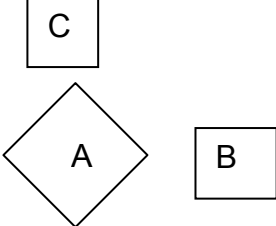
Set and published by the Assessment and Qualifications Alliance.

1	(a)		This point D, Justified	1 mark
1	(b)		Any reasonable, for example Highlight paragraph A and select Cut + Position the cursor below paragraph B and select Paste - <i>1+1 mark</i> Cut and paste, 1 mark	2 marks
1	(c)	(i)	This point E, Word art	1 mark
1	(c)	(ii)	This point C, Autoshape	1 mark
1	(d)		Any reasonable, for example An e-mail virus might be distributed Someone might copy the secretary's signature and pretend to be the secretary and attempt to defraud the company Someone might intercept the e-mail then they would know the SWgold watch is in stock and could steal it from them	2 marks
			Total	7 marks

2	(a)	(i)	This point A cell reference taken from: B2 to B7, D2 to D12	1 mark
2	(a)	(ii)	This point The cell reference D8	1 mark
2	(b)		Any reasonable, for example Advantages Clear layout Faster calculations You can use formulae The quotation can be edited to produce a quotation for any customer The plumber can rely on the software to produce accurate calculations Disadvantages The plumber must have access to a computer when producing a quotation The plumber has to be able to use the software The cost of the software	3 marks
2	(c)		This point The plumber should be working not playing on line games on the Internet	1 mark
2	(d)	(i)	This point Use antivirus software	1 mark
2	(d)	(ii)	Any reasonable, for example Use a firewall Only allow access to trusted websites Allow: Use a transaction log NOT answers to 2di NOT security precautions unrelated to the download of malicious software from the Internet NOT passwords and user ids. NOT disconnect from the Internet	1 mark
			Total	8 marks

3	(a)		These points A key field cannot be left blank A key field must be different in every record	2 marks
3	(b)		Any reasonable, for example Coded information can be input faster Coded information takes up less storage space on the hard disk Allow: The database takes up less space Coded information can be input more accurately.	1 mark
3	(c)		These points, in this order D, descending A, Admission Date	2 marks
3	(d)	(i)	This point Both Bolton and Jackson	1 mark
3	(d)	(ii)	This point Both Janiak and Bolton	1 mark
			Total	7 marks

4	(a)	(i)	This point When opened, the e-mail shows immediately that the home page is attractive	1 mark
4	(a)	(ii)	This point The e-mail is smaller and will upload and download faster	1 mark
4	(b)		These points A new e-mail message opens or a blank e-mail form opens The e-mail is automatically addressed to the owners You enter your message and click OK or send	2 marks
4	(c)		Any reasonable, for example Advantage You can compare a wider range of goods more easily You have access to the whole product range Disadvantage You have to wait for goods to be delivered You cannot be sure of the quality of the goods you are buying Someone might intercept your personal details	3 marks
			Total	7 marks

5	(a)		<p>Any reasonable, for example If it works, full marks</p> <table border="1" data-bbox="395 264 1310 857"> <tr> <td data-bbox="395 264 531 331">Up</td> <td data-bbox="531 264 1310 331">Includes Up, Down, Up in sequence and no others – <i>1 mark</i></td> </tr> <tr> <td data-bbox="395 331 531 398">Move 1 Down</td> <td data-bbox="531 331 1310 398">Arrives at shape and traverses two sides successfully whether cut or otherwise – <i>1 mark</i></td> </tr> <tr> <td data-bbox="395 398 531 432">Move 4</td> <td data-bbox="531 398 1310 432"></td> </tr> <tr> <td data-bbox="395 432 531 465">Right</td> <td data-bbox="531 432 1310 465"></td> </tr> <tr> <td data-bbox="395 465 531 499">Move 2</td> <td data-bbox="531 465 1310 499"></td> </tr> <tr> <td data-bbox="395 499 531 533">Right</td> <td data-bbox="531 499 1310 533">Traverses the notch whether cut or otherwise – <i>1 mark</i></td> </tr> <tr> <td data-bbox="395 533 531 566">Move 2</td> <td data-bbox="531 533 1310 566"></td> </tr> <tr> <td data-bbox="395 566 531 600">Left</td> <td data-bbox="531 566 1310 600"></td> </tr> <tr> <td data-bbox="395 600 531 633">Move 1</td> <td data-bbox="531 600 1310 633"></td> </tr> <tr> <td data-bbox="395 633 531 667">Right</td> <td data-bbox="531 633 1310 667">Correct completion – <i>1 mark</i></td> </tr> <tr> <td data-bbox="395 667 531 701">Move 2</td> <td data-bbox="531 667 1310 701"></td> </tr> <tr> <td data-bbox="395 701 531 734">Right</td> <td data-bbox="531 701 1310 734"></td> </tr> <tr> <td data-bbox="395 734 531 768">Move 3</td> <td data-bbox="531 734 1310 768"></td> </tr> <tr> <td data-bbox="395 768 531 801">Up</td> <td data-bbox="531 768 1310 801"></td> </tr> <tr> <td data-bbox="395 801 531 835">To start</td> <td data-bbox="531 801 1310 835"></td> </tr> </table>	Up	Includes Up, Down, Up in sequence and no others – <i>1 mark</i>	Move 1 Down	Arrives at shape and traverses two sides successfully whether cut or otherwise – <i>1 mark</i>	Move 4		Right		Move 2		Right	Traverses the notch whether cut or otherwise – <i>1 mark</i>	Move 2		Left		Move 1		Right	Correct completion – <i>1 mark</i>	Move 2		Right		Move 3		Up		To start		4 marks
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Right																																		
Move 3																																		
Up																																		
To start																																		
5	(b)		<p>These points Each label in its correct box – <i>1 mark per box</i></p> <div style="text-align: center;">  </div>	3 marks																														
5	(c)		<p>Any reasonable, for example It can repeatedly cut exactly the same shape Once set up, the programming can be stored and quickly re-used Reduces staff costs More accurate than manual cutting NOT It can work 24 hours per day without extra detail</p>	1 mark																														
			Total	8 marks																														

6	(a)	(i)	This point There are spelling mistakes and grammatical errors	1 mark
6	(a)	(ii)	Any reasonable, for example The text is right justified The text does not use bullets/paragraphs/emphasis or similar to help employees make sense of it, 1m each The text is too large to read comfortably	1 mark
6	(b)	(i)	This point As help in the software	1 mark
6	(b)	(ii)	Any reasonable, for example On a website On a blog As a .pdf file NOT answers to 6bi NOT a printed manual	1 mark
6	(c)	(i)	This point C, Implementation	1 mark
6	(c)	(ii)	This point D, Testing	1 mark
6	(c)	(iii)	This point B, Design	1 mark
6	(c)	(iv)	This point A, Specification	1 mark
			Total	8 marks

7	(a)		Any reasonable, for example Most people cannot read bar codes If the bar code cannot be read by the ICT system the librarian enters the numbers	1 mark
7	(b)	(i)	This point B, the ICT technician	1 mark
7	(b)	(ii)	These points in any order E, the librarian F, pupils	2 marks
7	(c)	(i)	These points There are 2,000 pupils attending the school Pupils use the library to look for information to help with their homework	2 marks
7	(c)	(ii)	Any reasonable, for example The school library has at least 2,000 books Matching books to pupils is more accurate/faster/easier NOT answers to 7ci	1 mark
			Total	7 marks

8	(a)	<p>These points</p> <p>At least one of modem, router or wireless access point shown in any order – <i>1 mark</i></p> <p>+ In order from external network point: modem, router, wireless access point – <i>1 mark</i></p> <p>Star network topology centred on one of wireless access point, router or modem, with at least 3 laptops and a desktop computer – <i>1 mark</i></p> <p>Shows at least one wireless connection from a computer <u>to the Internet</u> – <i>1 mark</i></p> <p>Shows at least one wired connection from a computer <u>to the Internet</u> – <i>1 mark</i></p> <p>Shows a printer, external hard disk, scanner or other reasonable hardware – <i>max 2 marks</i></p>	4 marks
8	(b)	<p>Any reasonable, for example</p> <p>NOT ways already mentioned in the question.</p> <p>You can play a very wide variety of different games from home.</p> <p>You can play with people located <u>all over the world</u> or you can talk to and see your friends in different parts of the world or similar.</p> <p>You can use ICT at any time you wish, 24/7</p> <p>Using a dance mat you can follow a keep fit programme at home whereas otherwise you would have to go to a gym.</p> <p>You don't have to be at home to monitor your home for security purposes as you can do this from anywhere in the world.</p> <p>You can shop on line from home.</p> <p>You can do your banking on line from home.</p> <p>You can find out information without going to the library.</p> <p>You can work from home.</p> <p>Music on the computer/Internet</p> <p>Mentions TV, video or films, 1m; TV and example (oplayer), 1m; Video and example (YouTube, podcasts), 1m; Films and example (Blinkbox), 1m; max 3m</p> <p>Social networking or example (Facebook)</p> <p>E-mail or example (Outlook)</p> <p>Chat or example (MSN)</p> <p>NOT 'Communicate'</p>	4 marks
Total			8 marks