



2010 Computing Studies

Standard Grade – Foundation

Finalised Marking Instructions

© Scottish Qualifications Authority 2010

The information in this publication may be reproduced to support SQA qualifications only on a non-commercial basis. If it is to be used for any other purposes written permission must be obtained from the External Print Team, Centre Services, Dalkeith.

Where the publication includes materials from sources other than SQA (secondary copyright), this material should only be reproduced for the purposes of examination or assessment. If it needs to be reproduced for any other purpose it is the centre's responsibility to obtain the necessary copyright clearance. SQA's External Print Team, Centre Services, at Dalkeith may be able to direct you to the secondary sources.

These Marking Instructions have been prepared by Examination Teams for use by SQA Appointed Markers when marking External Course Assessments. This publication must not be reproduced for commercial or trade purposes.

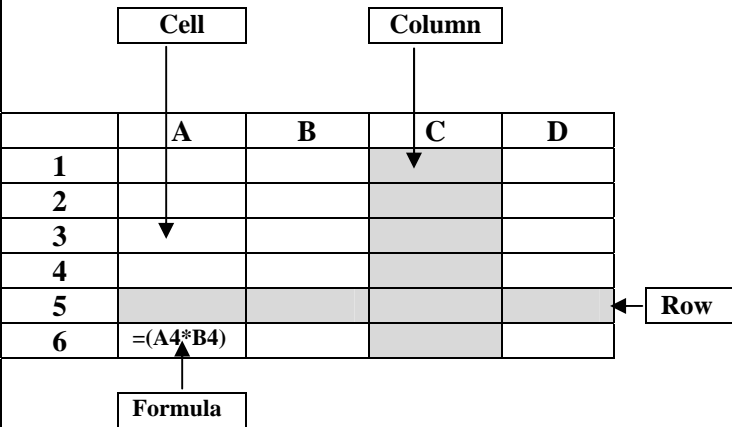
Part One: General Marking Principles for Computing Studies Standard Grade - Foundation

This information is provided to help you understand the general principles you must apply when marking candidate responses to questions in this Paper. These principles must be read in conjunction with the specific Marking Instructions for each question.

- (a) Marks for each candidate response must always be assigned in line with these general marking principles and the specific Marking Instructions for the relevant question.
- (b) Marking should always be positive i.e., marks should be awarded for what is correct and not deducted for errors or omissions.
- (c) If a specific candidate response does not seem to be covered by either the principles or detailed Marking Instructions, and you are uncertain how to assess it, you must seek guidance from your Team Leader/Principal Assessor. You can do this by posting a question on the Marking Team forum or by e-mailing/phoning the e-marker Helpline. Alternatively, you can refer the issue directly to your Team Leader by checking the 'PA Referral' box on the marking screen.
- (d) Award **one** mark for each 'bullet' point where stated in the marking instructions.
- (e) On the MFI system, if a candidate has not answered or attempted a question a dash '-' must be placed in the mark column instead of a zero '0'.
- (f) When converting from Gigabytes/Megabytes/Kilobytes to bytes, '1024' is the only unit acceptable, e.g. 1024 bytes = 1 Kilobyte, 1024 Kilobytes = 1 Megabyte, 1024 Megabytes = 1 Gigabyte.
- (g) No piece of work should be ignored without careful checking. Candidates may have scored out an answer then written the correct answer at the back of the question paper. Make sure that every page is checked.
- (h) If the first answer has been scored out, but still readable, *and not replaced by another answer*, the question should be marked in the normal way. If you feel that a candidate has been disadvantaged by this action, make it a 'PA Referral'.
- (i) On the MFI system, if you come across a paper which is blank, scroll down to the end of the paper in-case the answers have been written on a separate piece of paper which will be scanned and added to the end of the on-screen paper.
- (j) Any references to trade names or commercial products, e.g. "Microsoft", "MSN", etc.. should be ignored, and then the rest of the answer should be marked. For example, if you received an answer "Microsoft Spreadsheet" then "Microsoft" would be ignored and "Spreadsheet" accepted, but "Microsoft Excel" would be ignored

Part Two: Marking Instructions for each Question

Question			Expected Answer/s	Max Mark	Additional Guidance
1	a		Portable, can use anywhere.	1	Other acceptable answers include: Uses battery power rather than mains, Lighter than desktop, Takes up less space on desk, smaller than desktop, can carry it about with her.
1	b			5	No other possible answers.
		Type a letter.	Word Processing		
		Create a slideshow of a school trip.	Presentation		
		Keep an account of shop sales.	Spreadsheets		
		Draw a picture.	Graphics		
		Keep a list of pupils in school.	Databases		
1	c		Can be edited, saved, spellchecked, printed a number of times.	1	Other possible answers include: Neater than handwriting, looks better.
1	d		Any two from: <ul style="list-style-type: none"> Science Report - Underlined Science Report - centred First - bold 	2	No other possible answers.
1	e	i	Word Wrap	1	Do not accept text wrap.
1	e	ii	Footer	1	Accept Header and Footer or any combination i.e. Header + Footer. Do not accept Header on its own.
1	f		Any two from: <ul style="list-style-type: none"> Common HCI Ease of data transfer 	2	Other possible answers include: Cheaper than buying many separate GPPs, easier to learn, takes up less memory than having many GPPs loaded at the same time.

Question			Expected Answer/s	Max Mark	Additional Guidance
1	g			4	No other possible answers.
1	h		<p>Any one from:</p> <ul style="list-style-type: none"> Widen column A; Reduce font size; Change the font Increase width of column A. <p>NOT MAKE BIGGER OR MAKE CELL BIGGER</p>	1	<p>Credit answer would be use wrap text feature, click on line between A & B and drag to right, double-click on line between A & B.</p> <p>Must relate to column.</p>
2	a	i	Modem	1	<p>Other possible answers include: Access to telephone line.</p> <p>Do not accept router.</p>
2	a	ii	<ul style="list-style-type: none"> E-mail (Internet) Browser 	1	Other possible answers include: Web browser, communications software, e-mail software.
2	a	iii	Faster; Cheaper	1	Other possible answers include: Faster/quicker than normal posted mail, would not lose information easily it happens immediately (straight away).
2	b		Text Messaging; SMS	1	Text on its own.
2	c		Electronic	1	No other possible answers.
2	d		<p>Any two from:</p> <ul style="list-style-type: none"> customers may be tempted to buy more lower costs; available 24 hours / 7 days; accessible from anywhere in world; bigger market 	2	<p>Other possible answers include: Save on shop accommodation (rent) Less staff</p> <p>Do not accept faster.</p>

Question			Expected Answer/s	Max Mark	Additional Guidance												
3	a		<ul style="list-style-type: none">• Repetitive tasks,;• tasks in hazardous environments• tasks requiring accuracy• can work 24/7 Any two of the above.	2	Other possible answers include: Do not get paid, no need for breaks, more reliable, more accurate.												
3	b	i	Stationary <input checked="" type="checkbox"/>	1	No other possible answers. If 2 boxes are ticked 0 marks.												
3	b	ii	Pliers, screwdriver, spade, paint brush, spray gun, hammer, suction pad, etc..	1	Other possible answers include: Any sensible tool that might be used in a nuclear power station.												
3	c	i	motor	1	No other possible answers.												
3	c	ii	sensors	1	No other possible answers.												
3	c	iii	Feedback	1	No other possible answers.												
3	d		(Re)training	1	No other possible answers.												
3	e		Aided Design	2	No other possible answers. Remember to not penalise spelling.												
4	a		Wide Area Network <input checked="" type="checkbox"/>	1	No other possible answers. If 2 boxes are ticked 0 marks.												
4	b		<table><tr><td>Each office stores the sales information.</td><td></td></tr><tr><td>All information is processed very quickly.</td><td>✓</td></tr><tr><td>Only one person can access the sales information at anytime.</td><td></td></tr><tr><td>More than one person can access the sales information at the same time.</td><td>✓</td></tr></table>	Each office stores the sales information.		All information is processed very quickly.	✓	Only one person can access the sales information at anytime.		More than one person can access the sales information at the same time.	✓	2	No other possible answers. If 3 boxes are ticked only 1 mark; If 4 boxes are ticked 0 marks.				
Each office stores the sales information.																	
All information is processed very quickly.	✓																
Only one person can access the sales information at anytime.																	
More than one person can access the sales information at the same time.	✓																
4	c		Screen <input checked="" type="checkbox"/> Keyboard <input checked="" type="checkbox"/>	2	No other possible answers. If 3 boxes are ticked 0 marks.												
4	d		<table><tr><th>Order</th><th>Stages</th></tr><tr><td>1</td><td>data collection</td></tr><tr><td>2</td><td>data preparation</td></tr><tr><td>3</td><td>data input</td></tr><tr><td>4</td><td><i>data processing and storage</i></td></tr><tr><td>5</td><td>data output</td></tr></table>	Order	Stages	1	data collection	2	data preparation	3	data input	4	<i>data processing and storage</i>	5	data output	4	No other possible answers.
Order	Stages																
1	data collection																
2	data preparation																
3	data input																
4	<i>data processing and storage</i>																
5	data output																

Question			Expected Answer/s	Max Mark	Additional Guidance												
5	a		<table><tr><th>Use</th><th>Device</th></tr><tr><td>Used to point to an icon on the screen.</td><td>mouse</td></tr><tr><td>Used to get a paper copy of your document.</td><td>printer</td></tr><tr><td>Used to get a photograph into a computer.</td><td>scanner</td></tr><tr><td>Used to enter text.</td><td>keyboard</td></tr><tr><td>Used to input sound.</td><td>microphone</td></tr></table>	Use	Device	Used to point to an icon on the screen.	mouse	Used to get a paper copy of your document.	printer	Used to get a photograph into a computer.	scanner	Used to enter text.	keyboard	Used to input sound.	microphone	5	No other possible answers.
			Use	Device													
			Used to point to an icon on the screen.	mouse													
			Used to get a paper copy of your document.	printer													
			Used to get a photograph into a computer.	scanner													
			Used to enter text.	keyboard													
			Used to input sound.	microphone													
5	b	i	The contents of ROM cannot be changed.	1	No other possible answers.												
5	b	ii	The contents of RAM are lost when the computer is switched off.	1	No other possible answers.												
5	c		Random Access Memory	2	No other possible answers. Remember to not penalise spelling.												
5	d		Operating System	2	No other possible answers. Remember to not penalise spelling.												
5	e		Central Processing	2	No other possible answers. Remember to not penalise spelling.												
6	a	i	5	1	No other possible answers.												
6	a	ii	6	1	No other possible answers.												
6	b		<table><tr><td>Field</td><td><input checked="" type="checkbox"/></td></tr></table>	Field	<input checked="" type="checkbox"/>	1	No other possible answers. If 2 or 3 boxes are ticked 0 marks.										
Field	<input checked="" type="checkbox"/>																
6	c		The sales manager will <u>search</u> the file for the <u>records</u> which <u>contain</u> “Red” in the “Colour” <u>field</u> .	4	No other possible answers.												
6	d		The sales manager will <u>sort</u> the records in <u>ascending</u> order on the <u>Make</u> field.	3	No other possible answers.												

Question			Expected Answer/s	Max Mark	Additional Guidance								
6	e	i	Backup copy, second copy	1	Other possible answers include: Another copy								
6	e	ii	<table><tr><td>Make sure the customer can see their file.</td><td>✓</td></tr><tr><td>Make sure that customers can change any file.</td><td></td></tr><tr><td>Make sure all customers can see the entire customer file.</td><td></td></tr><tr><td>Make sure the data is accurate.</td><td>✓</td></tr></table>	Make sure the customer can see their file.	✓	Make sure that customers can change any file.		Make sure all customers can see the entire customer file.		Make sure the data is accurate.	✓	2	No other possible answers. If 3 boxes are ticked only 1 mark; If 4 boxes are ticked 0 marks.
Make sure the customer can see their file.	✓												
Make sure that customers can change any file.													
Make sure all customers can see the entire customer file.													
Make sure the data is accurate.	✓												
6	f		<ul style="list-style-type: none">information accessed more easily and quicklydata can be sorteddata can be searcheda variety of print layouts can be chosenany other suitable answer Any two of the above.	2	Other possible answers include: Paper does not get ripped/torn, paper can be lost More than 1 person can see it.								

[END OF MARKING INSTRUCTIONS]