		Total	
FOR OFFICIAL USE			

* X 2 0 7 1 0 0 1 1 *

NATIONAL QUALIFICATIONS 2011

X207/101

FRIDAY, 3 JUNE 9.00 AM - 10.00 AM COMPUTING STUDIES INTERMEDIATE 1

Fill in these boxes and read what is printed below	w.
Full name of centre	Town
Forename(s)	Surname
Date of birth Day Month Year Scottish ca	andidate number
Attempt Section I and one Part of Section II.	
Section I – Attempt all questions.	
Section II - This section has two parts:	
Part A – Computers and the Internet	
Part B – Information and the Internet	
Choose one part and answer all of the questions in t	hat part.
Read all questions carefully.	
Write your answers in the space provided on the que	estion paper.
Write as neatly as possible.	
Use blue or black ink. Pencil may be used for graph	s and diagrams only.
Before leaving the examination room you must give may lose all the marks for this paper.	this book to the Invigilator. If you do not, you





[BLANK PAGE]

[X207/101] Page two

1

1

SECTION I

Attempt ALL questions in this section

1. Gordon produces a monthly newsletter for the Dr What fan club. An article from next month's issue is shown below.

Halloween Party

Dr What club members are looking forward to this year's Halloween monster costume party in Glasgow. This is always a well attended event, with fans travelling from all over the UK to show off their best homemade costumes.

Last year's winner, Matthew, spent 20 hours creating his fabulous Devros costume from:

- cardboard
- plastic balls
- tape
- spray paint.



- (a) State the text justification Gordon used on the article's heading.
- (b) When the article was spell-checked the word Devros was highlighted. Explain why the spell checker highlighted this word.
- (c) State the word processing facility that was used to make the list of costume materials stand out.

[Turn over

[X207/101] Page three

1. (continued)

) The	photograph in the article was posted to 0	Gordon on paper.			
(i) State the hardware device Gordon used to capture the photograph on h computer.					
(ii)	The photograph was reduced in size between What is the correct term for changing the Tick () one box.				
	Rotate Scale Flip				
	Group				
Gore	don uses a desktop publishing package to State an advantage of using a desktop word processing package.				
(ii)	State the facility that allows the user to	fit text around the photograph.			
Gor	don prints the newsletter page shown.	W. W			
State	e the page orientation that Gordon	Halloween Party Dr What club members are looking forward to this year's Halloween monster costume party in Glasgow. This is always a well attended event, with fans travelling from all over the UK to show off their best homemade costumes. Last year's winner, Matthew, spent 20 hours creating his fabulous Devros costume from • cardboard • plastic balls • tape and • spray paint. Competition Winners Thanks to everyone who entered the guess the monster competition. This has been our most successful ever competition with 523 entries. The following members have won syberwomen masks for correctly guessing that the scrambled picture was indeed a syberwomen. Well done Susan Coltart, Lou Read, Simon Waish and Danni Cole. Forthcoming Episode News (from our man inside) Once again our man Matthew). In a the earth with his on the inside has stunning turn of robot army. We'll come up trumps. We events Dr. What's have to wait a while can exclusively reveal mind is altered by though to find out that this year's Devros and our hero how Dr What gets out Christmas special features our old friend our favourite bad guy. all our man could find Devros (as portayed) Once again Devros is out. Exciting stuff.			
		Lifelong Membership The Dr What fan club is proud to announce that lifelong membership has been granted to Shelia McDougall for her many years of service to the club. Shelia and her husband have had a variety of important roles: treasurer, events organiser and vice-president to name but a few. Thanks Shelia for all your hard work!			

[X207/101] Page four

1. (continued)

(g) Part of the newsletter contains columns of text.



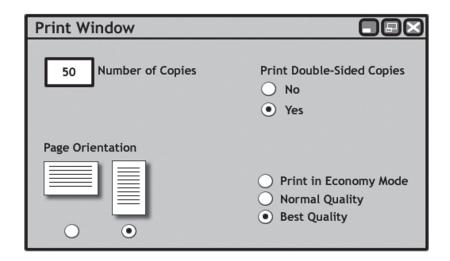
The columns were moved further apart as shown below.

1 2 3 4 5	· 6 · <u>L</u> · 7 · 1 · 8 · 1 · 9 · 1	· 10 · L · 11 · · · 12 ·
Events	Date/Time	Where
Halloween Party	31st October	Glasgow
AGM	18th November	London
New Members Night	5 th January	London
Torchforest Set Visit	23rd January	Cardiff

What has been changed to make the columns of text move?

(h) Gordon prints 50 copies of the newsletter.

Gordon has selected the print options shown below. On the print window diagram, draw a circle round the option he selected to *print efficiently*.



[Turn over

1

1

[X207/101] Page five

2. Dennis and Jean have just returned from a holiday in France. Jean creates a multimedia slideshow of their favourite photographs.

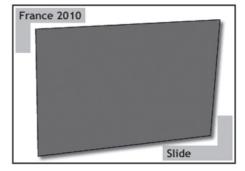








(a) State the facility Jean used to ensure all the slides have the same background.



(b) State the input device that is most suitable for capturing high quality still images.

(c) Jean wonders if adding some animation would improve the slides. State **one** way the text on the slides could be animated.

(d) Jean and Dennis show the slideshow to thirty of their friends and family. What output device is used to show a multimedia slideshow to a large audience?

1

1

1

1

[X207/101] Page six

•		11
2. (continu	.ed)

(e)		photograph.	
	(i)	What two items of hardware did Jean need to capture a sound file of Dennis describing each photograph?	
		1	
		2	
	(ii)	Which of the file types below is a sound file?	
		Tick (✓) one box.	
		.txt	
		.rtf	
		.avi	
		.wav	
	(iii)	The sound files were then compressed before they were added to the slides.	
	(111)	Why were the sound files compressed?	
f)	Jean	's mother asks if she can have a copy of the slideshow.	
		ch of the backing storage media below should be used to save a copy of the or Jean's mother?	
	Tick	a (✔) one box.	
		CD ROM	
		DVD ROM	
		Internal Hard Disk Drive	
		USB Flash Drive	
		[Turn over	
		[1 urn over	

[X207/101] Page seven

3. Joshway Academy Teen Enterprise Club make and sell boxes of chocolates. They use the application below to calculate how much profit they will make from each box.

	A	В	С
1	Teen Enterprise	Chocolates	
2			
3	1 Box of 20 Chocolates	Quantity	Cost
4	Chocolate	400g	£0.89
5	Sugar	50g	£0.04
6	Milk	75ml	£0.10
7	Cocoa butter	50g	£0.23
8	Vanilla Pod	1	£0.40
9	Cardboard Box	1	£0.32
10	Plastic Insert	1	£0.12
11	Chocolate Wrappers	20	£0.05
12		Total Cost	£2.15
13			
14		Selling Price	£3.50
15			
16		Profit	£1.35

u)	What type of application is shown in the above diagram?
	Tick (✓) one box.
	word processor
	spreadsheet
	charting
	database
<i>b</i>)	The Profit is the difference between the Selling Price and the Total Cost.
	What formula has been entered in cell C16?
c)	Teen Enterprise add "Mint Flavouring" to a new batch of chocolates.
	How could the file above be altered to include this new information?

[X207/101] Page eight

3. (continued)

(d) The data is sorted so that the ingredients and packaging costs are all in order from the cheapest to the dearest.

Which sentence below best describes how to sort the data?

Tick (**✓**) **one** box.

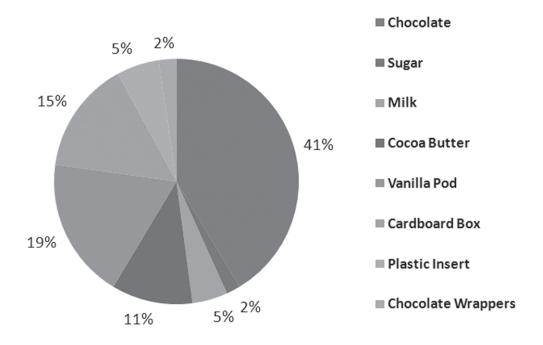
Highlight cells A4 to C11 and sort in ascending order on column C.

Highlight cells C4 to C11 and sort in descending order on column C.

Highlight cells A4 to C11 and sort in descending order on column C.

(e) The Enterprise Club use the application to produce the chart below.

Percentage Cost of Ingredients and Packaging



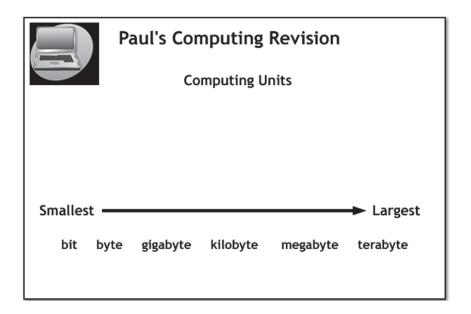
State the **type** of chart shown above.

1

[Turn over

[X207/101] Page nine

- **4.** Paul has created a multimedia slideshow on computer hardware as part of his computing revision.
 - (a) Paul's first slide shows six storage capacities written in order from the smallest to the largest. Paul notices one of these is in the wrong place.



State the storage capacity that Paul has typed in the wrong place.

(b) Paul's next slide contains three graphics of input devices.

Describe how Paul could **find** graphics of input devices and then **add** them to his multimedia slideshow.



2

1

[X207/101] Page ten

4. (continued)

(c) Paul adds a transition to his slides.

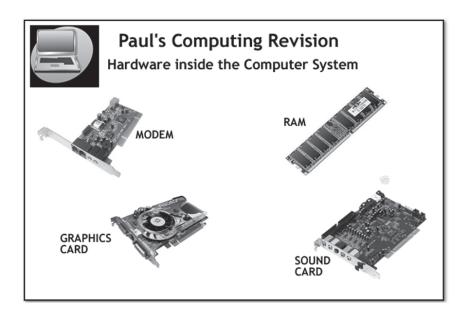


Describe what would happen when the slideshow is viewed.

1

(d) Paul has created a slide of hardware inside the computer system.

Draw a circle round the hardware device below that needs to be upgraded to improve the picture quality on a monitor.



1

(e) Paul adds notes to his slides. His keyboard stops working before he finishes his notes

Describe another method Paul could use to enter text without his keyboard.

1

[Turn over

	Game Title Beyond the Rift	
	Format ZBOX 360	
	Date of Release 05/05/11	
	Genre Adventure Price £34.99	
	Online Players 16	
a r	one box pplication ecord ort le	

ZBOX 360 games can have more than eight players playing online.

[X207/101] Page twelve

5. (continued)

` '	Cantastic Games make their information system available on the Internet. The internet version has many good quality graphics.					
What output device is required to view good quality graphics?						
Т	ick (✓) one box					
	low resolution monitor					
	low resolution printer					
	high resolution monitor					
	high resolution printer	1				
	antastic Games use the icons below to represent different genre (types) of ame.					
((i) The icons were drawn using a variety of different shapes and lines. State the type of graphics package that was used to draw the above icons.					
((ii) The two objects in the icon shown are identical. What graphics operation is used to create an identical copy of an object?	1				
	Tick (✓) one box					
	scale					
	rotate					
	flip	1				
	duplicate	1				

[Turn over

[X207/101]

5. (d) (continued)

(iii) When the website designer tries to move this icon, only the hat moves.



State the graphics operation that should have been performed on the objects in the icon.

1

2

(40)

(e) Each icon is saved to backing storage by selecting "Save As".

What **two** items of information should a user enter into a Save As window before clicking on the Save button?

2 _____

[END OF SECTION I]

SECTION II

There	are	two	parts	to	this	section.

Attempt **ONE** part only.

Tick the part that you intend to attempt.

Computers and the Internet	
Information and the Internet	

[Turn over

[X207/101] Page fifteen

Part A - Computers and the Internet

6.	Carol runs a property company that buys and sells houses. Her estate
	agents enter details of houses onto small hand held computers.



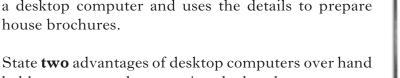
(a) (i) Name this **type** of computer.

(ii) Name **one** input device used with this type of computer.

1

1

(b) In the office Carol downloads the house details on to a desktop computer and uses the details to prepare house brochures.





held computers when creating the brochures.

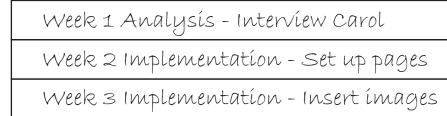
2

(c) The desktop computers in the office are part of a network.

State the type of computer that controls the running of a network.

1

- (d) Carol is having a website created for her company. The web developer, Stefan, follows the stages of the Software Development Process.
 - (i) Stefan is planning what he will do each week. His plan contains a mistake.





What stage of the Software Development Process has Stefan missed out?

2

1

Part A – Computers and the Internet (continued)

6. (d) (continued)

(ii) Name the Stage of the Software Development Process described below.

Stage	Tasks that the web developer does
	Answers the following questions
	• Does the website meet the specification?
	Could the website be improved?

(e) Below is the first page of Carol's new website.



i)]	0 040 44 477	two types	0+ 00+0	+ 44 0 400	+10.40	10000

1.			
^			

(ii) Identify **one** way to access "This Week's Specials" from this page.

[Turn over

[X207/101]

Part A – Computers and the Internet (continued)

7.

		as a new laptop. She uses it to access websites, type up ad send them electronically to her teacher.	
(a)	(i)	Marta's Internet access and e-mail stop working.	
		State one way that she can get her file onto the college computers.	1
	(ii)	E-mail is one type of communication software. State one other type of communication software.	1
	(iii)	State a running cost that Marta will have to pay for using the Internet.	1
(b)	(i)	Marta is typing a new essay, where is the data stored before she saves the essay?	
	(ii)	Which type of file is Marta's saved essay?	1
		Tick (✓) one box	
		Progam file	
		Systems software	
		Data file	
		Application software	1

[X207/101] Page eighteen

Part A - Computers and the Internet (continued)

8. Ali wants to buy Internet security software for his computer, he looks up the system requirements for Supersafe Software.

System Requirements

- 300 MHz or faster processor
- 512 MB of RAM
- 300 MB of free hard-disk space
- ReidOS 2010 Operating System minimum

Recommended

- High resolution monitor
- Broadband or high-speed Internet connection



- 2.8 GHz Processor
- 2 Gb of RAM
- 15" Widescreen TFT Screen
- ReidOS 2009
- 512 GB Hard Disk



- (a) What will Ali have to do before he can successfully install Supersafe Software?
- (b) Ali is running graphics and database software. When he tries to run his favourite game at the same time he notices that the game runs slowly.

Explain why the game runs slowly.

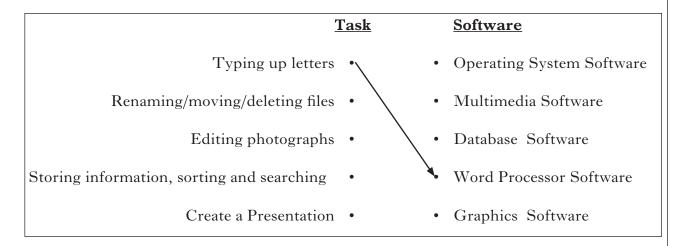
[Turn over

1

Part A – Computers and the Internet (continued)

8. (continued)

(c) Select the best software for each of the following tasks, the first one is done for you.



(d) Ali logs onto the computer. After logging on the following message appears.



Which of the following should Ali use to create his new password for best security?

Tick (\checkmark) one box

His favourite football team.
The first six letters of the alphabet.
Random letters, numbers and symbols
His cat's name.

1

(20)

[END OF PART A—COMPUTERS AND THE INTERNET]

[X207/101] *Page twenty*

Part B - Information and the Internet

6. Heather runs an adventure holiday business and uses a database to record bookings. One of the holiday bookings is shown below.

Customer Name	A Stalker
Holiday	Sky diving in Africa
Departure Date	01/07/2011
Number of Nights	6
Cost per night	£136·00
Extra	Hippo watching with Dr Brody Bart
Cost of Extras	£845·50

(a) State the **type** of data for Customer Name.

1

(b) Heather would like the database to work out and store the total cost of the holiday automatically.

Explain how she should do this.

2

[Turn over

1

Part B - Information and the Internet (continued)

6. (continued)

(c) Heather has created the report below.

Customer Name	Holiday	Departure Date	Number of Nights
Clarke, O	Monte Carlo	23/05/2012	10
Clarke, O	Wine tasting	01/07/2011	5
Clarke, O	Gourmet tour	09/09/2012	3
Grisham, A	Vampire watching	01/07/2011	6
Mooney, W	Water skiing	01/07/2011	5
Price, K	Pony trekking	01/07/2011	10
Price, K	Shopping in New York	20/07/2011	4
Stalker, A	Sky diving in Africa	01/07/2011	6
Windsor, B	Glacier skiing	01/07/2011	8
Windsor, E	Gourmet tour	09/09/2012	3

((i)	What has l	Heather	done	with	the	database	to	create	this	report?
	/	, , , iide iide i	LICUCIICI	aom	* * 1 011	ULIC	aaaaaaa		or care	CILLO	I CP OI C.

	Tick (✓) one box
		Sort on Departure Date ascending and sort on Number of Nights descending.
		Sort on Customer Name ascending and sort on Number of Nights descending.
		Sort on Number of Nights ascending and sort on Customer Name descending.
		Sort on Holiday ascending and sort on Customer Name ascending.
i)	State t	he output format used for this report.

6. (continued)

(<i>d</i>)	The database is part of a networked information system.	
	Why would Heather prefer to use the database on networked computers rather than on stand-alone computers?	
(e)	Heather is having a website developed. The web developer, Stefan, is using the Software Development Process.	
	(i) Describe what Stefan will do during the Analysis stage of the Software Development Process.	

[Turn over

6. (e) (continued)

(ii) Later in the Software Development Process he produces the following table.

Page Name = Index.htm			
Image	Filename	Result	Action
	Skydiver.gif	Appears in correct place, opens quickly. When clicked Skydiver page opens.	None
	Tiger.jpg	Appears in correct place, opens slowly. Larger than needed.	Check with Heather
	Logo.gif	Appears in correct place, opens quickly, colours match page well. When clicked gives information on company.	None

State which stage of the Software Development Process produces this output.

(f) Describe what is meant by a "homepage" on a website.

1

7. Carol runs a property company. She is searching for plumbers and electricians to do work on her houses. Carol uses a telephone directory on the Internet to find them. (i) What **type** of information system is she using? (a) Tick (**✓**) **one** box Public, electronic Private, electronic Public, manual Private, manual 1 (ii) State **one** advantage of using the Internet version of the directory rather than the paper version. 1 (b) Carol stores the details of the plumbers and electricians in a database. She includes their bank details. (i) Explain why the details of the plumbers are an example of information rather than data. 1 (ii) Under which law must Carol register before storing personal details on her database? 1 (iii) State what Carol should do to prevent hackers from gaining access to her database.

[Turn over

1

Part B - Information and the Internet (continued)

- **8.** Billy bought his computer two years ago.
 - (a) He upgrades his computer with more RAM and a new operating system.



What type of cost is this?

(b) He wants to access the Internet.

Name the device required to access the Internet.

(c) Billy buys all his shoes online from www.downatheel.co.uk.

Complete the table below by adding the correct type for each website, the first one has been done for you.

Use of website	Type of website
To buy shoes	Shopping website
To read about current events	
To find musical concerts in the local	
area	

8. (continued)

(d) Billy's son also uses the computer to access the Internet. If he tries to access www.downatheel.co.uk the following message is seen.



Explain why he is unable to access this website.

(e) State the term used to describe interlinked pages of information on the Internet.

[END OF PART B—INFORMATION AND THE INTERNET]

 $[END\ OF\ SECTION\ II]$

[END OF QUESTION PAPER]

1

1

(20)

[BLANK PAGE]