

CAMBRIDGE
INTERNATIONAL EXAMINATIONS

JUNE 2003

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 80

SYLLABUS/COMPONENT: 0418/01

INFORMATION TECHNOLOGY
Paper 1 (Written)



Page 1	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	1

Question Numbers	Answers	Part Mark
1	A Laptop computer	1
	B Printer	1
	C Floppy Disc	1
	D Scanner	1
	E Joystick	1
2	Scanner	1
	Keyboard	1
3	You can get an itemised receipt	1
	Supermarkets do not run out of stock so often	1
4	Two from: Overdue book reminders can be sent automatically Less time spent on checking books in/out Fines can be worked out quickly/automatically Easier/quicker to look up information on borrowers Easier/quicker to look up information on books Less space needed Gives access to Internet to order books etc. Greater accuracy	2
5	Two from: Messages can be sent instantaneously by e-mail You do not have to leave your house to send e-mail Signatures/important documents cannot be sent by e-mail Replies to e-mails can be quicker E-mail can be cheaper/the cost of a phone call is less than the cost of a stamp You can send file attachments Less waste of paper You need a computer in order to receive e-mails With e-mails you cannot send physical objects	2
6	RIGHT 90 LEFT 90 REPEAT 6 REPEAT 6 FORWARD 25 BACKWARD 25 LEFT 60 LEFT 60 END REPEAT END REPEAT	5
7	(a) Any cell in column A, apart from A1	1
	(b) Any cell in column B, C, D or E, apart from row 1	1
	(c) Any cell in column D, apart from D1 or Any cell in column F, apart from F1	1
	(d) = D\$*E\$ (where \$ = same row) except D1*E1 (must have *)	1

Page 2	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	1

Question Numbers	Answers	Part Mark
8	Input Device = mark sense reader/keyboard/OMR Output Device = Laser printer/ink jet printer/monitor/printer	1 1
9	Two from: Take more accurate readings More readings can be taken in a short period of time Results can be more easily/quickly produced Graphs are more easily/automatically produced. Safety reasons Does not get tired	2
10	Two from: Save it to floppy disc/writeable CD ROM Save to secure network area Change/use password Prevent other users seeing the screen Do not accept physical locking	2
11	Two from: Desk Top Publishing Advertising posters/tickets Spreadsheet Accounts for the fete Database Names/addresses of helpers (parents/pupils)/local companies (for sending letters) Word processing Letters to parents/community advertising fete Letters to local companies for sponsorship 1 for each separate type of software, 2 max 1 for each valid use, 2 max	2 2
12	Hardware = bar code reader Software = database	1 1

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	1

Question Numbers	Answers	Part Mark
13	Two from: It is too dangerous to build the real thing It is too expensive to build the real thing It is too time consuming to build the real thing Time scales are too vast It is too expensive to change options in the real thing	2
14	Two from: Do not use disks from unknown sources Use anti-virus software/virus checker/killer Do not connect to the Internet/network/WAN/LAN Do not open attachments from unknown/suspicious sources Use a firewall	2
15	Two from: Hackers can access their credit/debit card details Do not get much exercise from not going out Fewer social contacts Cannot see the goods in reality/might turn out to be different to what was seen on computer/might be out of stock. Rogue websites Time consuming/quicker (only if qualified) Computer fraud	2
16 (a)	Three from: Temperature sensor Pressure sensor Moisture sensor Humidity sensor Wind sensor Light sensor Anemometer Rain gauge/sensor	3
(b)	Two from: Computer can take readings during holidays Computer readings are more accurate Readings can be taken more frequently Readings can be taken any time of day or night Graphs are more easily/automatically produced Data can be more easily/automatically analysed	2

Page 4	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	1

Question Numbers	Answers	Part Mark
17 (a)	<p>Advantages - one from: Do not have to remember to take their books home/take their homework to school Can present their work more neatly Pupils can share ideas Less waste of paper</p> <p>Disadvantages - one from: Must have a home computer Transmission of viruses Must have Internet/Modem Must remember passwords/usernames Pupils can copy off others</p>	1
(b)	<p>Two from: Parents unable to use the phone Undesirable sites may be accessed Phone bills will rise May receive unsolicited e-mails from undesirable characters Health reasons Demand on equipment Can waste time exploring unreliable sites Can get distracted playing games</p>	2
18	<p>Two from: Backache RSI Eyestrain Headaches</p> <p>Two from: Get straight back chairs/sit with straight back/do not slouch/ finger exercises periodically Get anti-glare screens/look away from screen periodically Have eyesight tested/get glasses Take regular breaks (There must be a health problem stated before prevention mark can be awarded)</p>	2
19	<p>Two from: Cheaper running cost for school - phone bill Less likely to waste time on irrelevant sites Information is easier to find Internet tends to be slower Teacher knows what responses to expect Greater validity of data/less likely to encounter distasteful data on a CD Internet connections can be unreliable You do not need a connection to the Internet</p>	2

Page 5	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	1

Question Numbers	Answers	Part Mark
20	Text = name/form Numeric = students marks/number of absences Boolean/logical = gender/finished paper or not Date = date of test/homework	1 1 1 1
21 (a)	Hackers may read the data and pass it on Hackers may delete the data Hackers may amend the data	1 1 1
(b)	Three from: Data can be encrypted Usernames/passwords can be used Do not connect the computers to a network If connected to a network use dedicated lines Physical security - locks on computer room doors (There must be a misuse stated before prevention mark can be awarded)	3
22	Four from: Hackers may intercept data and defraud customer Customers deprived of personal touch Banks make more money do not have to have branches in expensive high streets Bank workers become unemployed Bank workers forced to retrain Easier for customers to mismanage accounts Easier for customers to make transactions Do not have to visit branch to make payments Do not have to wait for post/immediate payments can be made	4
23	Six from: Laptops can be transported from room to room Cannot share resources on laptops/more difficult to print out work Cannot use laptops to access work that may have been saved in other lessons Can use laptops outside the classroom in Science/Geography Laptops may be more expensive than network stations Difficult to use keyboard/mouse on laptop Laptops need recharging from time to time When the network is down cannot use network computers/can still use laptops Can store personal data on laptop Any other suitable answer	6

Page 6	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	1

Question Numbers	Answers	Part Mark
24	<p>Three maximum from: Pressure sensors Microprocessor Light sensors Heat sensors Contact switches/push switch Input keypad Sound sensor Infra red sensor Motion sensor/movement sensor</p> <p>Three maximum from: Pass number input to keypad Zones selected Microprocessor continually monitoring sensors If light sensor deactivated/heat sensor/contact switch/pressure pad activated Microprocessor sends signal to sound alarm/flashing light/house lights Alarm Light flashes/lights come on/alarm sounds Signal automatically sent to police</p>	<p>3</p> <p>3</p> <p>5 max total</p>

CAMBRIDGE
INTERNATIONAL EXAMINATIONS

JUNE 2003

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 80

SYLLABUS/COMPONENT: 0418/02

INFORMATION TECHNOLOGY
Paper 2 (Written)



Page 1	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	2

Question Numbers	Answers	Part Mark
1	Plotter Speaker	1 1
2	CD ROM Magnetic tape	1 1
3	MIDI	1
4	Human error	1
5	Control Coding An interview Hacking	1 1 1 1
6	It is quick to find a customer's record It is easier to edit drawings	1 1
7 (a)	Two from: Can sort records Can insert records Can produce graphs Can save file Can print file/records Can edit records Can delete records Can encrypt records Can password protect the file Can create input forms Can create reports	2
(b)	Direct/random	1
(c)	Visual verification Double entry - copies typed by separate secretaries and compared Two different versions of double entry are acceptable	1 1
(d)	Either Scanner or Digital camera	1
(e)	Two from: You can be fined for: You can go to prison for: Gaining unauthorised access to any program or data held in a computer Committing computer fraud/blackmail Writing programs designed to change or impair the performance of a computer or data stored on a computer (viruses) It must be the actions of the law and must not be Data Protection Act	2

Page 2	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	2

Question Numbers	Answers	Part Mark
(f)	Two from: Have had to re-train Computer-related health problems Less noise/more pleasant environment Greater job satisfaction/easier to make corrections/do not have to type it all again Unemployment/redundancy/change job	2
8	Two from: Can copy data without leaving a trace Can delete data without leaving a trace Do not need to physically break in to a building Can spend as much time as it takes to break password security without being detected Copies on disc can be smuggled out easier than on paper because it is compact	2
9 (a)	MICR	1
(b)	Serial/sequential	1
(c)	(CAD)CAM	1
10 (a)	Keyed in Read bar code	1 1
(b)	Check digit, length check or existency check - no alternatives to these three	1
(c)	Two from: Account number Expiry date Start date Issue number Sort code	2
(d)	Two from: Valid issue number/account number/sort code Sufficient funds Expiry date not past Checks that there are no unusual spending patterns Pin number is checked Not been reported stolen	2

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	2

Question Numbers	Answers	Part Mark
11	Two from: Work might have been accidentally deleted Work might have been deleted/changed by hacker System malfunction may have corrupted work	2
12	Producing gas bills Sending out reminders for overdue books	1 1
13 (a)	Price	1
(b)	Paperback or hardback	1
(c)	ISBN Because this field is unique for each book	1 1
(d)	Two from: Parallel running Direct changeover Phased implementation Pilot running	2
(e)	Technical documentation Two from: Program listing List of variables File structure Purpose of the system Screen layouts Print formats Purpose of the program Hardware requirements Software requirements Sample runs Systems flowchart/program flowchart/algorithm How to install software	2

Page 4	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	2

Question Numbers	Answers	Part Mark
(f)	<p>User documentation</p> <p>Two from:</p> <p>How to load software</p> <p>How to run software</p> <p>How to save a file</p> <p>Screen layouts</p> <p>Print formats</p> <p>How to search</p> <p>How to sort</p> <p>How to print</p> <p>Hardware requirements (only if not mentioned in technical documentation)</p> <p>Software requirements (only if not mentioned in technical documentation)</p> <p>Sample runs (only if not mentioned in technical documentation)</p> <p>Troubleshooting guide</p> <p>How to install software (only if not mentioned in technical documentation)</p>	2
14 (a)	<p>Two marks are available for hardware. Company will need to buy:</p> <p>Webcams/small video cameras</p> <p>Microphones</p> <p>Speakers</p> <p>Modem</p> <p>Three marks are available for description from:</p> <p>Employees are connected on-line</p> <p>Images of the employees appear on the screen</p> <p>Software is needed in each computer to operate the conference</p> <p>Employees who speak can be heard by all the other employees in the conference</p> <p>Only four marks are available in total</p>	2
(b)	<p>Two from:</p> <p>Do not have to pay for conference room</p> <p>Do not have to pay employee travelling expenses</p> <p>Do not have to pay for hotel rooms/overnight stays</p> <p>Conferences can be called at short notice</p>	2
		4 total

Page 5	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	2

Question Numbers	Answers	Part Mark
15 (a)	Four from: Doctors interviewed for requirements Data is collected from experts Knowledge base is designed/created Rule base is designed/created Inference engine is designed/created Input Screen is designed/created Output format is designed/created Interview a sample of patients	4
(b)	Mineral prospecting Car engine fault diagnosis Tax Chess games Any other suitable answer	2
16	Six from: The bar code of the ISBN is read Check digit calculated to validate ISBN ISBN is matched with number on file of books/on hard disk Information from the books computer database is read ready for printing Details from customer's credit/debit card read Sort code allows shop computer to contact bank's computer Details checked for validity Account checked for sufficient funds If invalid/insufficient funds then transaction is rejected Amount deducted from customer's bank account Amount credited to shop's bank account Itemised receipt printed out	6
17	Bank advantage: one from: Fewer employees/lower wage bill Fewer branches to maintain	1
	Bank disadvantage: one from: Large initial capital expenditure Customer mistrust of such systems	1
	Customer advantage: one from: Easier to see state of finances Can transfer funds more easily in emergency/at any time of day/holidays	1
	Customer disadvantage: one from: Miss the personal touch Have to be computer literate Still have to travel to withdraw cash	1

Page 6	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	2

Question Numbers	Answers	Part Mark
18 (a)	<p>Methods of collecting information: Three from: Interviewing workers Questionnaires to workers Observation of working practices Collecting documents</p>	3
(b)	<p>Appropriate methods Two from: Phone operators - questionnaires/observation Office employees - interviews/collecting documents/ questionnaires Drivers - questionnaires</p> <p>Reasons Two from: Phone operators constantly busy - difficult to pin down for interview Secretaries - can process orders in a batch so could be available for interview Deal with many documents so collecting these would give good insight Drivers never available during day and only use one document</p>	2
	<p>Four from: Field lengths Field types/data types Validation checks Key field selected Relationships</p>	4

JUNE 2003

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 70

SYLLABUS/COMPONENT: 0418/03

INFORMATION TECHNOLOGY
Paper 3 (Practical)



Page 1	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	3

Printout of the second e-mail prepared and ready to send to autoresponder -

Check send to address: design.h@ucles.org.uk

Check subject line **ICTCOREX**

Check for attachment present **KUROKI.TXT**

If candidate has attached file **KUROKI.CSV** instead of **KUROKI.TXT** then allow this

A. Student

Name top left of page
 ## Does not have to be in the header ##

Date top right of page
 ## Does not have to be in the header ##

<today's date>

A4 page size, Landscape
 All margins 3.5 cm
 ## Allow for paper feed inconsistencies with printers –
 (the line length must be between 22.5 and 23 cm) ##

Kuroki Koi

Heading inserted, centre aligned,
 14 point, bold, underscored
 Different font to body text

Rootrainer Trees has diversified during the past financial year and has set up a new business strand called Kuroki Koi. The business deals with ornamental fish called koi carp. The decision to move away from the Rootrainer name was taken in an attempt to add an oriental and authentic facade to this business. The idea was developed by Takeo Ogawa, who is the head of Rootrainer's 'South East Asian Division' that covers all operations in Japan, Thailand, Australia, India and Indonesia.

Takeo had noticed on his recent trips to Europe and America that there was a growing interest in the cultures of many Asian countries. The natural progression from this was to look at opportunities of turning this cultural interest into hard cash. Allied with the business structures set in place by Rootrainer Trees, Takeo has developed 'Kuroki Koi'. The business has been started with two distinct markets identified. The first of these is the elite, highly prized and very profitable koi carp exported from his native Japan to specialist outlets in several locations in the West. These include:

- London
- Paris
- Milan
- Washington
- Seattle

Bullet points
 Indented at least 4cm
 ## Accept if start of text indented by 4cm from margin ##

There are plans to open new outlets (as franchises) in Riyadh, Dubai and Athens during the next twelve months. The second business strand is aimed at the mass market, particularly relating to the English obsession with gardening. Takeo plans to sell directly to over 7000 garden centres within the British Isles in the next two years, and then move into the Netherlands, France, Germany and Spain the year after that. The production of cheaper, 'mass produced' but lower quality koi will require the establishment of fish farms somewhere in Western Europe during the next twelve months.

Page numbering bottom left

Page Number

A. Student

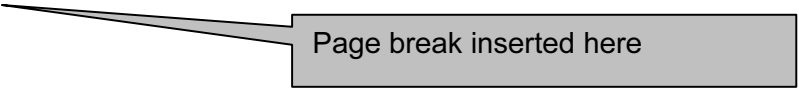
<today's date>

The location of these farms will depend upon several factors: the host country must be a member of the European Union; the warmer the temperature the more rapidly the fish will grow and therefore have a minimum time from hatching to a marketable product; the population must have some experience of animal husbandry, preferably with fish; and the area must have first class transportation links to ensure less stress on the fish during distribution. Possible locations considered so far are:

There will clearly be a need for major investment in the new fish farms and it is proposed to use the initial profits from the more exclusive koi sales to partially fund this growth. To reduce costs the company will run alongside Ogawa Bonsai and Roottrainer Trees, using the same distribution network and will also use its sister company Ogawa Bonsai to assist in marketing.

Vouchers for Kuroki Koi will be given free with all Ogawa Bonsai trees sold, giving the holder a 10% discount on any koi carp purchased within a 12 month period. This strategy will hopefully encourage people who would not previously have considered a pond and koi carp to adopt a more oriental flavour to their garden. Once hooked - excuse the pun - the more exclusive (and expensive) fish can be sold, generating a self-perpetuating marketplace.

Results of the surveys of preferred koi breeds are included below for the English mass market. The results of this survey were extracted from customers leaving a variety of garden centres identifying the specific koi they would put into a pond if they had one.



Page break inserted here

Page Number

A. Student

<today's date>

Another possible development of this idea would be to introduce specialist koi purchasing trips to Japan, for the discerning customer to hand select their own koi. By arranging a hassle free trip, which includes shipping and quarantining of their selected fish at the appropriate time of year would net a large potential profit. Although the number of customers would be likely to be small, the opportunity for clients to hand select koi in the natural surroundings of the Niigata region should provide the 'chance of a lifetime'. The area selected would probably be Mushigami. If this trip were marketed correctly, the profits should be extensive and on top of the trip costs, charges for the transportation, quarantining and veterinary charges would also be a possibility.

Body text left aligned
10 point
1.5 line spacing

Page number bottom left of page
Does not have to be in the footer

Page Number

Page 5	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	3

Page orientation portrait

Benigoi Koi

Heading 'Benigoi Koi' at the top
Does not have to be in the header and any alignment is acceptable

Species	Main	Other	Metallic	Rating
Benigoi	Orange	None	Y	62
Benigoi	Red	None	N	45
Benigoi	Red	None	Y	55
Benigoi	Orange	None	N	56

Check data entry of last 3 records
Must be 100% accurate

Sorted in any order

A. Student

Name bottom right of report
Does not have to be at bottom of page

Heading 'Koi with Yellow' at the top
Does not have to be in the header
and any alignment is acceptable ##

Koi with Yellow

Sorted in ascending order of 'Species'

Species	Main	Other	Rating
Ki Bekko	Yellow	Black	32
Ki Utsuri	Black	Yellow	28
Kigo	Yellow	None	58
Kujaku	Yellow	Platinum	43
		Average	40.25

Only these 4 fields selected
Can be any order or layout

Search Main = Yellow OR
Other = Yellow

Calculated Field
Average Rating calculated

A. Student

Name bottom left of report
Does not have to be at bottom of page

Page 7	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	3

A. Student

Heading present
Any alignment, font
or point size, is acceptable ##

Portrait page orientation
All margins 2cm
Allow for paper feed inconsistencies
with printers – (the line length must be
between 16.75 and 17.25 cm) ##

Kuroki Koi

Rootrainer Trees has diversified during the past financial year and has set up a new business strand called Kuroki Koi. The business deals with ornamental fish called koi carp. The decision to move away from the Rootrainer name was taken in an attempt to add an oriental and authentic facade to this business. The idea was developed by Takeo Ogawa, who is the head of Rootrainer's 'South East Asian Division' which covers all operations in Japan, Thailand, Australia, India and Indonesia.

Takeo had noticed on his recent trips to Europe and America that there was a growing interest in the cultures of many Asian countries. The natural progression from this was to look at opportunities of turning this cultural interest into hard cash. Allied with the business structures set in place by Rootrainer Trees, Takeo has developed 'Kuroki Koi'. The business has been started with two distinct markets identified. The first of these is the elite, highly prized and very profitable koi carp exported from his native Japan to specialist outlets in several locations in the West. These include:

- London
- Paris
- Milan
- Washington
- Seattle

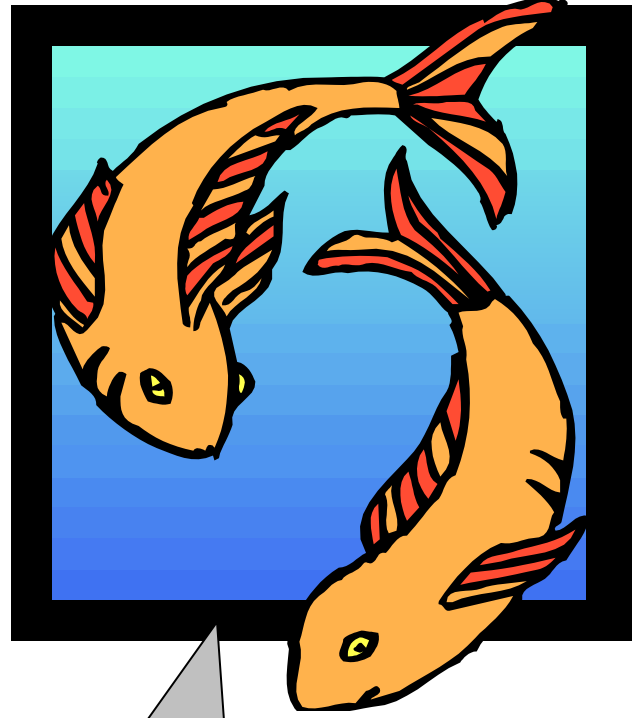


Image of any fish inserted
It may also be a lake, pond or ocean picture ##
Placed top right of page
Graphic area no more than 40% of printed page
and no less than 10% of page ##
Orientation of graphic not important ##
Text must wrap around all the image

There are plans to open new outlets (as franchises) in Riyadh, Dubai and Athens during the next twelve months. The second business strand is aimed at the mass market, particularly relating to the English obsession with gardening. Takeo plans to sell directly to over 7000 garden centres within the British Isles in the next two years, and then move into the Netherlands, France, Germany and Spain the year after that. The production of cheaper, 'mass produced' but lower quality koi will require the establishment of fish farms somewhere in Western Europe during the next twelve months.

A. Student

<today's date>

The location of these farms will depend upon several factors: the host country must be a member of the European Union; the warmer the temperature the more rapidly the fish will grow and therefore have a minimum time from hatching to a marketable product; the population must have some experience of animal husbandry, preferably with fish; and the area must have first class transportation links to ensure less stress on the fish during distribution. Possible locations considered so far are:

La Roda	Spain	Warm
Whitstable	England	Close to market
Emmen	Netherlands	Natural lakes
Toulouse	France	Warm, good transport
Crawley	England	Close to market

Table inserted here
100% accuracy in all data entry needed

There will clearly be a need for major investment in the new fish farms and it is proposed to use the initial profits from the more exclusive koi sales to partially fund this growth. To reduce costs the company will run alongside Ogawa Bonsai and Roottrainer Trees, using the same distribution network and will also use its sister company Ogawa Bonsai to assist in marketing.

Vouchers for Kuroki Koi will be given free with all Ogawa Bonsai trees sold, giving the holder a 10% discount on any koi carp purchased within a 12 month period. This strategy will hopefully encourage people who would not previously have considered a pond and koi carp to adopt a more oriental flavour to their garden. Once hooked - excuse the pun - the more exclusive (and expensive) fish can be sold, generating a self-perpetuating marketplace.

Results of the surveys of preferred koi breeds are included below for the English mass market. The results of this survey were extracted from customers leaving a variety of garden centres identifying the specific koi they would put into a pond if they had one.

Species	Rating
Kohaku	92
Hi Utsuri	76
Tancho Sanke	67
Ogon	64
Benigo	62
Shiromuji	62
Hi Showa	62
Ogon	60
Chagoi	60

Database extract placed here
Format of the extract is not important

Searching for
Rating > = 60

Sorted descending on Rating

Only these 2 fields selected
Can be arranged in any order or layout

Another possible development of this idea would be to introduce specialist koi purchasing trips to Japan, for the discerning customer to hand select their own koi. By arranging a hassle free trip, which includes shipping and quarantining of their selected fish at the appropriate time of year would net a large potential profit. Although the number of customers would be likely to be small, the opportunity for clients to hand select koi in the natural surroundings of the Niigata region should provide the 'chance of a lifetime'. The area selected would probably be Mushigami. If this trip were marketed correctly, the profits should be extensive and on top of the trip costs, charges for the transportation, quarantining and veterinary charges would also be a possibility.

Check for no widows, orphans, lists or tables which overlap two pages

Body text fully justified
12 point
Single line spacing

Page Number

JUNE 2003

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 72

SYLLABUS/COMPONENT: 0418/04

INFORMATION TECHNOLOGY
Paper 4 (Practical)



Formula:
Ins Rate = Lookup (Category in Named Range)
 ## Alignment not important ##
 ## Row/Column may not be the same as this example ##
 ## Must display the use of a named range ##

Formula:
Rate multiplied by Ins Rate
 ## Alignment not important ##
 ## Row/Column may not be the same as this example ##
 ## Do not penalise the use of named cells/ ranges ##

Category	Car Type	Doors	Rate	Ins Rate	Insurance	Total	Deposit
				=LOOKUP(A2,ins)	=D2*E2	=D2+F2	=IF(D2>60,"Yes","No")
				=LOOKUP(A3,ins)	=D3*E3	=D3+F3	=IF(D3>60,"Yes","No")
				=LOOKUP(A4,ins)	=D4*E4	=D4+F4	=IF(D4>60,"Yes","No")
				=LOOKUP(A5,ins)	=D5*E5	=D5+F5	=IF(D5>60,"Yes","No")
				=LOOKUP(A6,ins)	=D6*E6	=D6+F6	=IF(D6>60,"Yes","No")
				=LOOKUP(A7,ins)	=D7*E7	=D7+F7	=IF(D7>60,"Yes","No")
				=LOOKUP(A8,ins)	=D8*E8	=D8+F8	=IF(D8>60,"Yes","No")
				=LOOKUP(A9,ins)	=D9*E9	=D9+F9	=IF(D9>60,"Yes","No")

Insurance Table

Category	Ins
A	0.1
B	0.15
C	0.2
D	0.25
E	0.3
F	0.35

Formula:
Rate + Insurance
 ## Alignment not important ##
 ## Row/Column may not be the same as this example ##
 ## Do not penalise the use of named cells ##

Formula:
IF Rate greater than 60, Yes, if less than or equal to 60, No
 ## Alignment not important ##
 ## Row/Column may not be the same as this example ##

Page orientation landscape
 This printout must show formulae view
 Column width/row height must show all of formulae and labels

Format the results in the Ins Rate column to percentage

Format the results in the Rate, Insurance and Total columns to currency showing \$ and 2 dp

Category	Car Type	Doors	Rate	Ins Rate	Insurance	Total	Deposit
A	Economy	2	\$38.00	10%	\$3.80	\$41.80	No
B	Compact	2	\$44.00	15%	\$6.60	\$50.60	No
B	Compact	4	\$48.00	15%	\$7.20	\$55.20	No
C	Intermediate	2	\$58.00	20%	\$11.60	\$69.60	No
C	Intermediate	4	\$60.00	20%	\$12.00	\$72.00	No
D	Jeep wrangler	2	\$78.00	25%	\$19.50	\$97.50	Yes
E	Premium	4	\$94.00	30%	\$28.20	\$122.20	Yes
F	Luxury	4	\$95.00	35%	\$33.25	\$128.25	Yes

Insurance Table

Category	Ins
A	0.1
B	0.15
C	0.2
D	0.25
E	0.3
F	0.35

Test data:

Four columns and Insurance Table must be 100% accurate

Page orientation not specified
This printout must show data and fit on a single page

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	4

Searching:
Total greater than 60 and less than 100 and Doors = 2
 ## Only these two rows should be visible ##

Category	Car Type	Doors	Rate	Ins Rate	Insurance	Total	Deposit
C	Intermediate	2	\$58.00	20%	\$11.60	\$69.60	No
D	Jeep wrangler	2	\$78.00	25%	\$19.50	\$97.50	Yes

Searching:
Total is greater than 50 and the Category is B or C
 ## Only these four rows should be visible ##

Category	Car Type	Doors	Rate	Ins Rate	Insurance	Total	Deposit
B	Compact	2	\$44.00	15%	\$6.60	\$50.60	No
B	Compact	4	\$48.00	15%	\$7.20	\$55.20	No
C	Intermediate	2	\$58.00	20%	\$11.60	\$69.60	No
C	Intermediate	4	\$60.00	20%	\$12.00	\$72.00	No

New web page called AHHOME.HTM
Does not need to be labeled

Heading – Style H1
From stylesheet, Dark Green, sans-serif font, largest text size, bold, centre aligned

Table created with 5 rows and 2 columns
Top row cells merged, row 3 cells merged

Style H1

Argon Hire

About Us

Car Types

- Mini
- Economy
- Compact
- Intermediate
- Jeep Wrangler
- Full size

Hyperlink created

Our Services

Car Hire for all occasions



Style H2

We have a wide range of vehicles available that can be picked up at our offices, the airport, your hotel or your villa.

Weekly Rates

- 239.40
- 245.70
- 292.60
- 364.00
- 573.30
- 716.45

Style H3

Quality Assurance

We ensure that all of our vehicles are fully serviced. We only use the cars for one session before changing/replacing them.

Weekly Hire Charges

All vehicles come with fully comprehensive insurance. We have daily rates and weekly rates.

Style H3
From stylesheet, Bright Green, serif font, smallest text size, left aligned

Style H2
From stylesheet, Bright Blue, sans-serif font, italic and middle text size, left aligned

CARS2003.JPG in this cell
Any vertical or horizontal alignment is acceptable
Image resized 150 pixels width ## All image must be visible ##

Contact Details

Menu contains AHMENU.TXT – Style H2

- HTML code is likely to vary greatly from this example – only check for required elements.
- Note that some candidates may use .JPEG as an extension. Do not penalise this.
- Note that if no html code is included, a visual check of the table is not sufficient, and marks should be deducted, as you cannot check that a style sheet has been used. No PC's from section 17 can be awarded.

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=windows-1252">
<meta name="GENERATOR" content="Microsoft FrontPage 4.0">
<meta name="ProgId" content="FrontPage.Editor.Document">
<title>Argon Hire</title>
<link rel="stylesheet" type="text/css" href="argon.css">
</head>
<body>
<h1>Argon Hire</h1>
<p>&nbsp;</p>
<h2>About Us</h2>
<div align="left">
<table border="6" width="74%" align="right">
<tr>
<td width="100%" colspan="2">
<h1>Our Services</h1>
</td>
</tr>
<tr>
<td colspan="2">
<h3>Car Hire for all occasions</h3>
<img alt="Yellow car with luggage" data-bbox="620 225 810 330" style="width: 150px; height: 100px; vertical-align: middle;"/>
<div style="display: flex; justify-content: space-between; margin-top: 10px;">


<h3>Quality Assurance</h3>
<p>We ensure that all of our vehicles are fully serviced. We only use the cars for one session before changing/replacing them.</p>



<h3>Weekly Hire Charges</h3>
<p>All vehicles come with fully comprehensive insurance. We have daily rates and weekly rates.</p>


```

External stylesheet attached to web

Check for table border set to 6

Page 5	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	4

```

        <td width="50%">
            <h2>Car Hire for all occasions</h2>
        </td>
        <td width="50%">&nbsp;</td>
    </tr>
    <tr>
        <td width="50%">
            <h3>We have a wide range of vehicles available that can be
picked up at our offices, the airport, your hotel or your villa.&nbsp;</h3>
        </td>
        <td width="50%"></td>
    </tr>
    <tr>
        <td width="50%">
            <h2>Quality Assurance</h2>
        </td>
        <td width="50%">
            <h2>Weekly Hire Charges</h2>
        </td>
    </tr>
    <tr>
        <td width="50%">
            <h3>We ensure that all of our vehicles are fully serviced. We only
use the cars for one season before changing/replacing them.</h3>
        </td>
        <td width="50%">
            <h3>All vehicles come with fully comprehensive insurance.&nbsp;</h3>
We have daily rates and weekly rates.</h3>
        </td>
    </tr>
</table>
</div>
<h2><a href=" AHINTRO.HTM " target="EXTERNAL">Car Types</a><br>
Mini<br>
Economy<br>
Compact<br>
Intermediate<br>
Jeep wrangler<br>
Fullsize</h2>
<h2>Weekly Rates<br>
239.40<br>
245.70<br>
292.60<br>
364.00<br>
573.30<br>
716.45<br>
<br>
</h2>
<h2>Contact details</h2>

</body>

</html>

```

Check graphic size for
CARS2003.JPG is set to width 150

Reference from hyperlink "Car Types"
to open AHINTRO.HTM (also allow
ARGHIRE.HTM) in new window called
EXTERNAL or other name (FrontPage
default New Page 2)

Cars

We have many vehicles to choose from.

The variety of vehicles for hire are shown in the table below:

Car Type	Daily Total	Weekly Total
Mini	\$41.80	\$239.40
Economy	\$42.90	\$245.70
Economy	\$47.90	\$270.90
Compact	\$50.60	\$292.60
Compact	\$55.20	\$319.20
Intermediate	\$62.40	\$364.00
Intermediate	\$69.60	\$371.00
Jeep wrangler	\$97.50	\$573.90
Minivan 7 seater	\$111.80	\$662.20
Fullsize	\$120.15	\$716.45
Premium	\$131.60	\$789.60
Luxury	\$137.75	\$831.25



Style H1, H2, H3 used
No specific instruction on which text

Many of our vehicles can be ordered over the Internet and collection or delivery can be arranged wherever convenient

We operate within the European Union:

Italy
Germany
Greece
Spain
United Kingdom

Why wait? Contact us for further information.

Home Page 

Check this graphic has replaced the text

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=windows-1252">
<meta name="GENERATOR" content="Microsoft FrontPage 4.0">
<meta name="ProgId" content="FrontPage.Editor.Document">
<title>Crops</title>
<link rel="stylesheet" type="text/css"
href="unsaved:///../food%20chain/foodstyle.css">
<link rel="stylesheet" type="text/css" href="argon.css">
</head>
<body>
<h1>Cars</h1>
<h2><ul:p></ul:p>We have many vehicles to choose from.<o:p></o:p></h2>
<h3><ul:p></ul:p>The variety of vehicles for hire are shown in the table
below:<o:p></o:p></h3>
<table width="341">
<col width="64" span="3" style="width:48pt">
<tr height="17" style="height:12.75pt">
<td height="17" width="199" style="height: 12.75pt">
<h3>Car Type</h3>
</td>
<td class="x122" width="58">
<h3>Daily<br>
Total</h3>
</td>
<td class="x122" width="64">
```

External stylesheet attached to this web page

HIRE2003.JPG
Any vertical or horizontal alignment is acceptable Image resized 225 pixels width ##
All image must be visible ##

Page 7	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	4

```

    <h3>Weekly<br>
    Total</h3>
  </td>
</tr>
<tr height="17" style="height:12.75pt">
  <td height="17" style="height: 12.75pt" width="199">
    <h3>Mini</h3>
  </td>
  <td width="58">
    <h3>$41.80</h3>
  </td>
  <td width="64">
    <h3>$239.40</h3>
  </td>
</tr>
<tr height="17" style="height:12.75pt">
  <td height="17" style="height: 12.75pt" width="199">
    <h3>Economy</h3>
  </td>
  <td width="58">
    <h3>$42.90</h3>
  </td>
  <td width="64">
    <h3>$245.70</h3>
  </td>
</tr>
<tr height="17" style="height:12.75pt">
  <td height="17" style="height: 12.75pt" width="199">
    <h3>Economy</h3>
  </td>
  <td width="58">
    <h3>$47.30</h3>
  </td>
  <td width="64">
    <h3>$270.90</h3>
  </td>
</tr>
<tr height="17" style="height:12.75pt">
  <td height="17" style="height: 12.75pt" width="199">
    <h3>Compact</h3>
  </td>
  <td width="58">
    <h3>$50.60</h3>
  </td>
  <td width="64">
    <h3>$292.60</h3>
  </td>
</tr>
<tr height="17" style="height:12.75pt">
  <td height="17" style="height: 12.75pt" width="199">
    <h3>Compact</h3>
  </td>
  <td width="58">
    <h3>$55.20</h3>
  </td>
  <td width="64">
    <h3>$319.20</h3>
  </td>
</tr>
<tr height="17" style="height:12.75pt">
  <td height="17" style="height: 12.75pt" width="199">
    <h3>Intermediate</h3>
  </td>
  <td width="58">
    <h3>$62.40</h3>
  </td>
  <td width="64">
    <h3>$364.00</h3>
  </td>

```

Page 8	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	4

```

    </td>
</tr>
<tr height="17" style="height:12.75pt">
  <td height="17" style="height: 12.75pt" width="199">
    <h3>Intermediate</h3>
  </td>
  <td width="58">
    <h3>$63.60</h3>
  </td>
  <td width="64">
    <h3>$371.00</h3>
  </td>
</tr>
<tr height="17" style="height:12.75pt">
  <td height="17" style="height: 12.75pt" width="199">
    <h3>Jeep wrangler</h3>
  </td>
  <td width="58">
    <h3>$97.50</h3>
  </td>
  <td width="64">
    <h3>$573.30</h3>
  </td>
</tr>
<tr height="17" style="height:12.75pt">
  <td height="17" style="height: 12.75pt" width="199">
    <h3>Minivan 7 seater</h3>
  </td>
  <td width="58">
    <h3>$111.80</h3>
  </td>
  <td width="64">
    <h3>$662.20</h3>
  </td>
</tr>
<tr height="17" style="height:12.75pt">
  <td height="17" style="height: 12.75pt" width="199">
    <h3>Fullsize</h3>
  </td>
  <td width="58">
    <h3>$120.15</h3>
  </td>
  <td width="64">
    <h3>$716.45</h3>
  </td>
</tr>
<tr height="17" style="height:12.75pt">
  <td height="17" style="height: 12.75pt" width="199">
    <h3>Premium</h3>
  </td>
  <td width="58">
    <h3>$131.60</h3>
  </td>
  <td width="64">
    <h3>$789.60</h3>
  </td>
</tr>
<tr height="17" style="height:12.75pt">
  <td height="17" style="height: 12.75pt" width="199">
    <h3>Luxury</h3>
  </td>
  <td width="58">
    <h3>$137.75</h3>
  </td>
  <td width="64">
    <h3>$831.25</h3>
  </td>
</tr>

```

Page 9	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	4

```

</table>
<h3><ul:p></ul:p>Many of our vehicles can be ordered over the Internet and
collection or delivery
can be arranged wherever convenient.<o:p></o:p></h3>

<h2><ul:p></ul:p>We operate within the European Union: </h2>

<h3 style="word-spacing: 0; line-height: 100%; margin: 0">Italy</h3>

<h3 style="word-spacing: 0; line-height: 100%; margin: 0">Germany</h3>

<h3 style="word-spacing: 0; line-height: 100%; margin: 0">Greece</h3>

<h3 style="word-spacing: 0; line-height: 100%; margin: 0">Spain</h3>

<h3 style="word-spacing: 0; line-height: 100%; margin: 0">United
Kingdom<o:p></o:p></h3>

<h3><ul:p></ul:p>Why wait? Contact us for further information.</h3>

<h3> Home Page <a href="ahome.htm"></a> </h3>

</body>
</html>

```

Check hyperlink from graphic to
AHHOME.HTM

Check for HOMEICON.GIF not
.JPG
Width 35

One printout 3 slides per page as a handout example below with each slide shown on separate sheets.



Argon Hire

Experts in the area of car hire for the past 6 years

17 January 2002 Student's Name 1

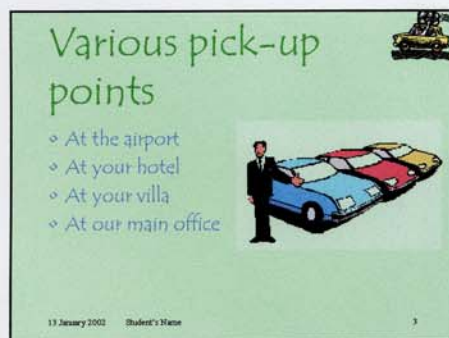


Our weekly hire charges

Category	Weekly Rate (approx.)
Mini	40
Economy	45
Compact	55
Intermediate	65
Large van/MPV	100
Medium	110
Fullsize	125
Premium	135
Luxury	145

- Many cars to choose from
- All with full insurance
- Daily rates quoted
- Weekly rates available

17 January 2002 Student's Name 2



Various pick-up points

- At the airport
- At your hotel
- At your villa
- At our main office

17 January 2002 Student's Name 3

Page 11	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	4

SLIDE 1

Background:
Pale green ##
Must be consistent throughout all slides

Logo:
Suitable clipart insert on master slide ##
Must be consistent throughout all slides



Heading:
Dark green, left, large font between 50 and 72 point ##
Allow one data entry error

Argon Hire

Experts in the area of car hire for the past 6 years

Subheading:
Bright blue, left, medium font between 36 & 44 point ##
Allow one data entry error

13 January 2002
Student's Name

1

Candidate's name and today's date:
Placed in bottom left quadrant of the screen ##
Colour black ##
Font size to be smallest text on the slide

Auto Slide number:
Placed in bottom right quadrant of the slide ##
Must be consistent throughout all slides

SLIDE 2

Background:
Pale green ##
Must be consistent throughout all slides

Logo:
Suitable clipart insert on master slide ##
Must be consistent throughout all slides

Heading:
Dark green, left, large font between 50 & 72 point ##
Allow one data entry error

Our weekly hire charges

Car Model	Weekly Hire Charge
Mini	41.80
Economy	42.90
Compact	50.60
Intermediate	62.40
Jeep wrangler	97.50
Minivan	111.80
Fullsize	120.15
Premium	131.60
Luxury	137.75

- Many cars to choose from
- All with full insurance
- Daily rates quoted
- Weekly rates available

13 January 2002 Student's Name 2

Bulleted list:
Bright blue, left aligned, small font between 18 & 32 point ##
Allow any bullet points – but must be present ##
Allow one data entry error

Chart created from data:
Mini 41.80
Economy 42.90
Compact 50.60
Intermediate 62.40
Jeep wrangler 97.50
Minivan 111.80
Fullsize 120.15
Premium 131.60
Luxury 137.75
Any form of chart is acceptable

Auto Slide number:
Placed in bottom right quadrant of the slide ##
Must be consistent throughout all slides

Line drawn to separate bullets from chart, must be green:
Any form of line is acceptable

Candidate's name and today's date:
Placed in bottom left quadrant of the screen ##
Colour black ##
Font size to be smallest text on the slide

Page 14	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – JUNE 2003	0418	4

SLIDE 3

Background:
Pale green ##
Must be consistent throughout all slides

Logo:
Suitable clipart insert on master slide ##
Must be consistent throughout all slides

Heading:
Dark green, left, large font between 50 & 72 point ##
Allow one data entry error

Various pick-up points



- ◇ At the airport
- ◇ At your hotel
- ◇ At your villa
- ◇ At our main office



Bulleted list:
Bright blue, left aligned, small font between 18 & 32 point ##
Allow any bullet points – but must be present ##
Allow one data entry error

Graphic CARSALE.JPG:
Placed in right half of the screen ##
Must take up at least 10% of the screen

13 January 2002

Student's Name

3

Candidate's name and today's date:
Placed in bottom left quadrant of the screen ##
Colour black ##
Font size to be smallest text on the slide

Auto Slide number:
Placed in bottom right quadrant of the slide ##
Must be consistent throughout all slides