

**GENERAL CERTIFICATE OF SECONDARY EDUCATION
INFORMATION AND COMMUNICATION
TECHNOLOGY**

2357/01

Paper 1
(Foundation Tier)

Candidates answer on the question paper

OCR Supplied Materials:

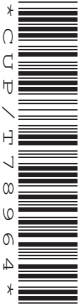
None

Other Materials Required:

None

**Thursday 8 January 2009
Afternoon**

Duration: 1 hour



Candidate Forename		Candidate Surname	
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Centre Number						Candidate Number				
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INSTRUCTIONS TO CANDIDATES

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- Write your answer to each question in the space provided.
- Additional answer space is available on the lined pages at the back of this booklet. Answers on these pages **must** be clearly numbered.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **60**.
- No marks will be awarded for using brand names of software packages or hardware.
- This document consists of **16** pages. Any blank pages are indicated.

1 Circle **two** tasks that can be done over the internet.

edit a video file

format disks

look at web pages

scan a photograph

send emails

[2]

2 Tick **one** box in each row to show whether the item is hardware or software. The first one has been done for you.

Item	Hardware (✓)	Software (✓)
Web browser		✓
Central Processing Unit		
Digital camera		
Mouse		
Operating System		
Spreadsheet		

[5]

3 State the most suitable type of software application for each of the tasks shown.

Task	Most suitable software application
Working out the costs of a school trip	
Organising student details in a school	
Editing digital images	
Creating a leaflet	

[4]

4 This is a list of devices that can be found in computer systems.

- CD drive
- hard disk drive
- internal memory
- joystick
- microphone
- printer
- robot arm

(a) From the list above, write down **two** input devices.

Input device 1

Input device 2 [2]

(b) From the list above, write down **two** output devices.

Output device 1

Output device 2 [2]

(c) Write down **one** other output device that is usually found in a computer system.

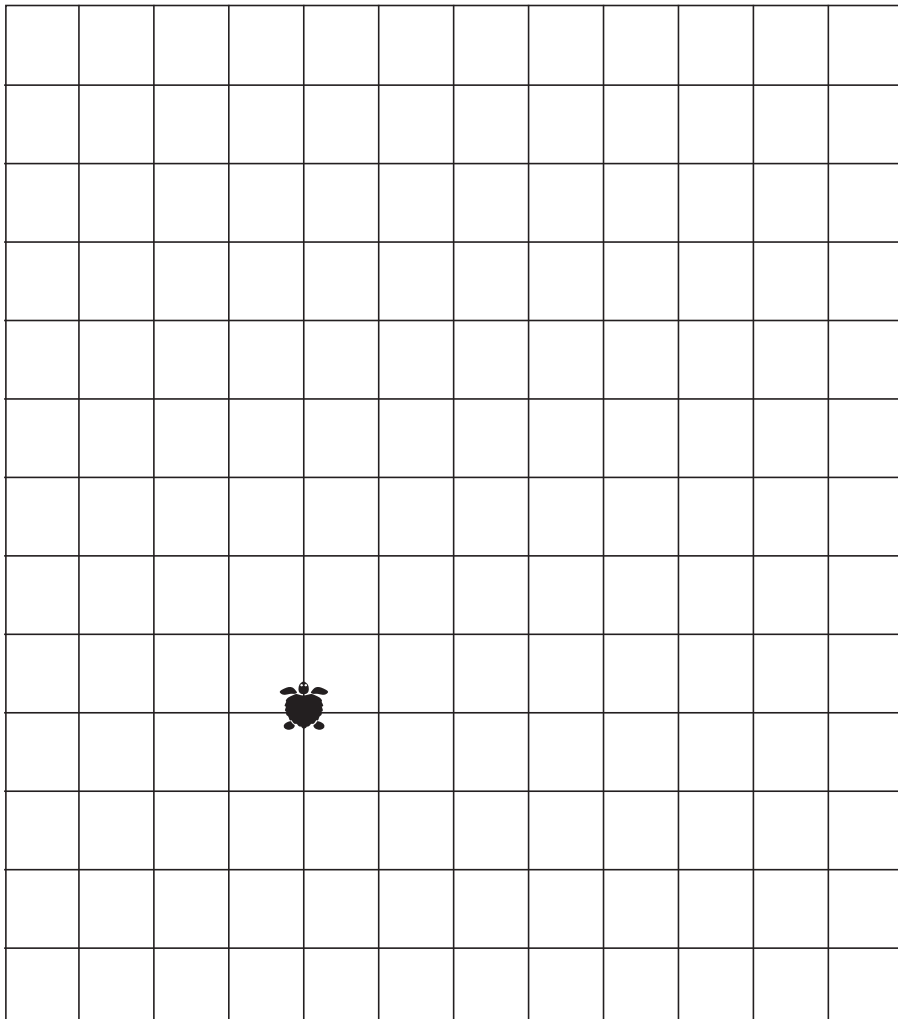
..... [1]

5 A screen turtle is controlled by these commands:

Instruction	Shorthand	Meaning
REPEAT n []	REPEAT	Repeat the instructions in square brackets n times
FORWARD n	FD	Move forward by n squares
BACKWARD n	BK	Move backward by n squares
LEFT n	LT	Turn left n degrees
RIGHT n	RT	Turn right n degrees

(a) On the grid below, draw the route that the turtle would follow if given these instructions:

FD4
RT90
FD2
RT90
FD3
LT90
FD2
RT90
FD1
RT90
FD4

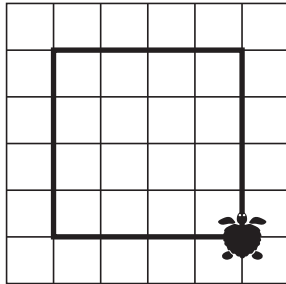


(b) These instructions are given to the turtle:

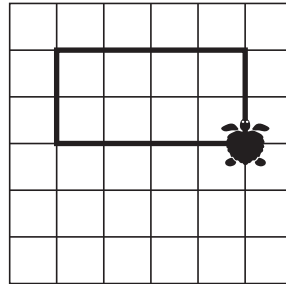
REPEAT 4 [FD3 LT90]

Which of the following shapes would be drawn?

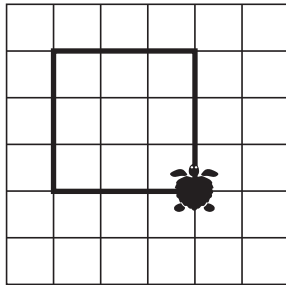
A



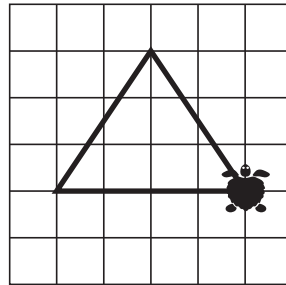
B



C



D



Write the letter of the shape:

[1]

6 Claudia has bought and downloaded some music files. She gives copies of these files to Bob.

Explain why she should **not** do this.

.....

.....

.....

..... [2]

7 In the table below, tick **three** uses of data logging.

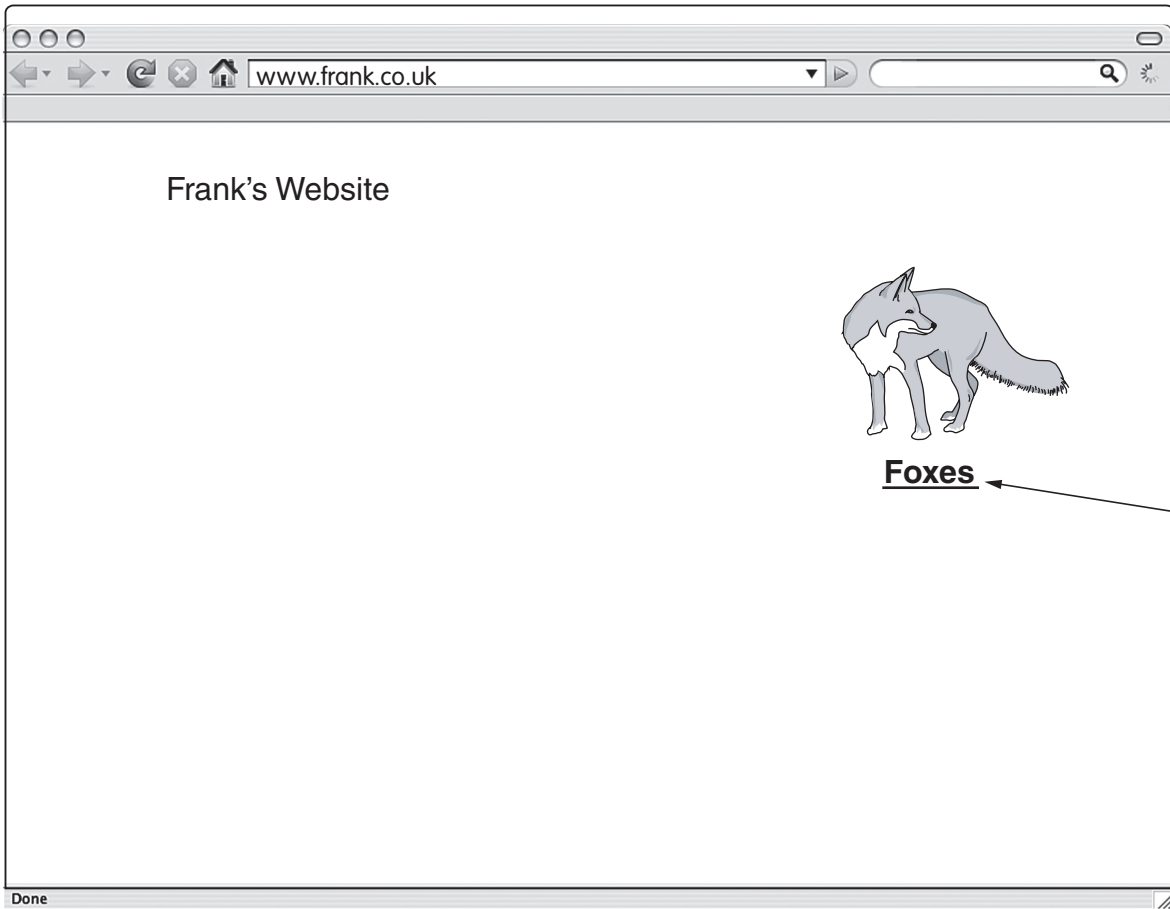
Task	Data Logging (✓)
Calculating the cost of phone calls	
Changing traffic lights	
Counting how many people go through a turnstile at a concert	
Counting the number of cars leaving a car park	
Printing personalised wage slips	
Recording the temperature of the water in a fish tank	

[3]

7
BLANK PAGE

PLEASE TURN OVER FOR THE NEXT QUESTION
PLEASE DO NOT WRITE ON THIS PAGE

8 Frank uses a web browser to display web pages.



(a) The page shown above is always displayed first when Frank opens the browser. Why is this?

..... [1]

(b) The text at **A** is underlined so that a new page should appear when a user clicks on it.

(i) What name is given to the underlined text?

..... [1]

(ii) Sometimes no page appears.

State **two** possible reasons why no page appears.

Reason 1

.....

Reason 2

..... [2]

10 This is a database of the students in a small tutor group.

Student ID	Forename	Name	Gender	Tutor Group	Home Contact Number	No. of half days absent
1010	Mohammed	Nissar	M	10A1	077 567 898	12
1018	Yoko	Sato	F	10A1	077 896 543	6
1013	Trevor	Williams	M	10A1	021 000 234	5
1012	Michaela	Harrison	F	10A1	079 772 345	4
1011	Reuben	Macavoy	M	10A1	021 888 999	3
1015	Julie	Ford	F	10A1	012 341 110	2
1016	Tracey	Hamilton	F	10A1	077 678 907	2
1017	Gurpreet	Jalfe	F	10A1	012 188 655	1
1014	Chinzia	Lee	F	10A1	077 890 002	0

(a) A search for all the males having more than four absences is to be made.

(i) Complete the query below to do this:

Gender = MALE..... No. of absences..... 4

[2]

(ii) How many records will be found?

..... [1]

(b) If the database is sorted on ascending order of Name, how many absences does the student at the bottom of the list have?

..... [1]

(c) The telephone number field is set as 'text' data type.
Give **two** reasons why 'text' is the most suitable data type.

Reason 1

.....

Reason 2

..... [2]

(d) (i) What data type should be used for the 'Number of half days absent' field?
..... [2]

(ii) Give **one** reason for choosing this data type.
.....
..... [1]

(e) Why is 'Student ID' used as a key field?
..... [1]

(f) This database is protected by a password.
Why is it necessary to do this?
.....
..... [1]

(g) Give **two** ways how this database could be used in the school.
Way 1
.....
Way 2
..... [2]

11 Hardeep is looking through his work stored on his computer and accidentally deletes some important files. He has to redo all the work.
Describe how he could have avoided the need to redo all the work.
.....
.....
.....
.....
.....
.....
.....
.....
..... [4]

12 A company has offices in this country and overseas.

(a) Some important documents must be distributed and it is decided to use email instead of normal post.

State **three** problems that this may cause and, for each problem, state how the problem may be solved.

Problem 1

Solution

Problem 2

Solution

Problem 3

Solution [6]

(b) Video conferencing is used by the company staff so that they can hear and see each other at a distance.

Give **two** advantages of using video conferencing compared to face-to-face meetings.

Advantage 1

Advantage 2 [2]

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