

Candidate forename						Candidate surname					
Centre number						Candidate number					

OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GCSE

B061/02

**INFORMATION AND COMMUNICATION
TECHNOLOGY**

ICT in Today's World

FRIDAY 1 JUNE 2012: Morning

DURATION: 1 hour

MODIFIED ENLARGED

Candidates answer on the Question Paper.

OCR SUPPLIED MATERIALS:

None

OTHER MATERIALS REQUIRED:

None

READ INSTRUCTIONS OVERLEAF

INSTRUCTIONS TO CANDIDATES

- **Write your name, centre number and candidate number in the boxes on the first page. Please write clearly and in capital letters.**
- **Use black ink. HB pencil may be used for graphs and diagrams only.**
- **Answer ALL the questions.**
- **Read each question carefully. Make sure you know what you have to do before starting your answer.**
- **Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).**

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.**
- **Your Quality of Written Communication is assessed in questions marked with an asterisk (*).**

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- 1 Fig. 1 and Fig. 2 show two types of interface that allow a user to access a computer system.

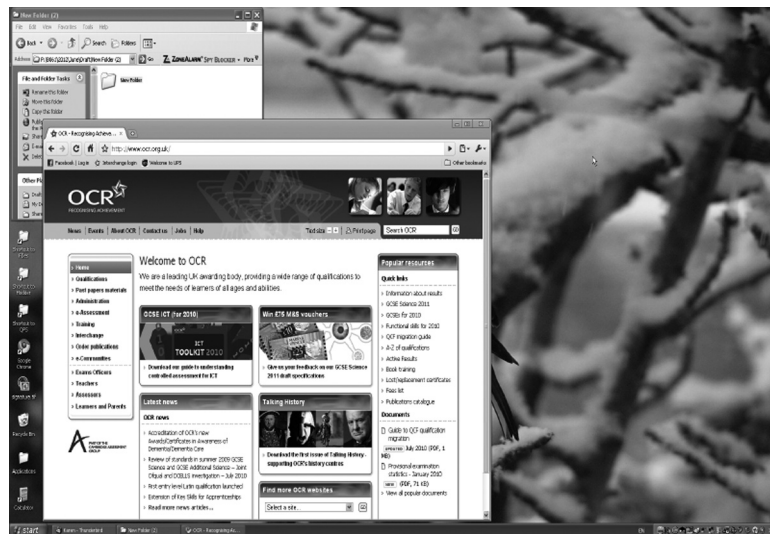


Fig. 1

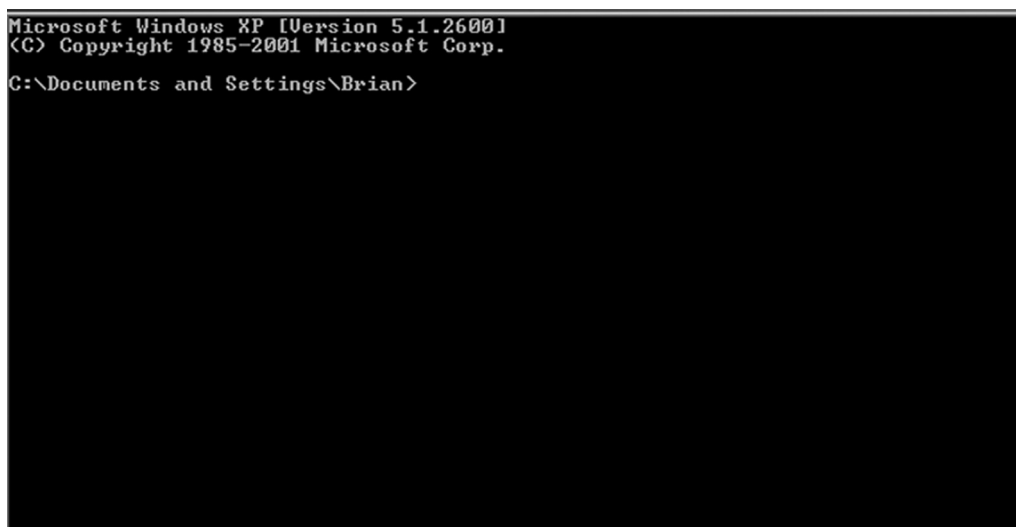


Fig. 2

(a) Identify the types of interfaces shown.

Fig. 1 is a _____

Fig. 2 is a _____ [2]

(b) State TWO advantages to the user of using the interface shown in Fig. 1.

1 _____

2 _____

_____ **[2]**

(c) State ONE advantage to the user of using the interface shown in Fig. 2.

_____ **[1]**

2 Fred develops computer games.

Explain how Fred could make use of each of the devices below.

(a) DVD re-writer

[2]

(b) Speakers

[2]

(c) Joystick

[2]

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- 3 George has found and removed a virus on his computer. He does not want to allow any more viruses onto his computer. He has asked you for advice.**

(a) Explain what a computer virus is.

[3]

(b) Explain THREE methods he could use to try and make sure viruses do not get onto his computer.

1 _____

2 _____

3 _____

_____ **[6]**

4* Discuss the use of the internet by students to find information for use in a homework project.

The quality of written communication will be assessed in your answer to this question.

[illegible]

[8]

- 5 Fig. 3 opposite shows the floor plan of a warehouse. Staff in the warehouse program a truck to move along the white track.

Some of the instructions to control the truck are shown in the table below.

INSTRUCTION	SHORT VERSION OF INSTRUCTION	ACTION TAKEN
FORWARD (n)	FD (n)	Move forward by n squares
BACKWARD (n)	BK (n)	Move backward by n squares
LEFT (n)	LT (n)	Turn left by n degrees
RIGHT (n)	RT (n)	Turn right by n degrees
WAIT (n)	WT (n)	Wait for n minutes

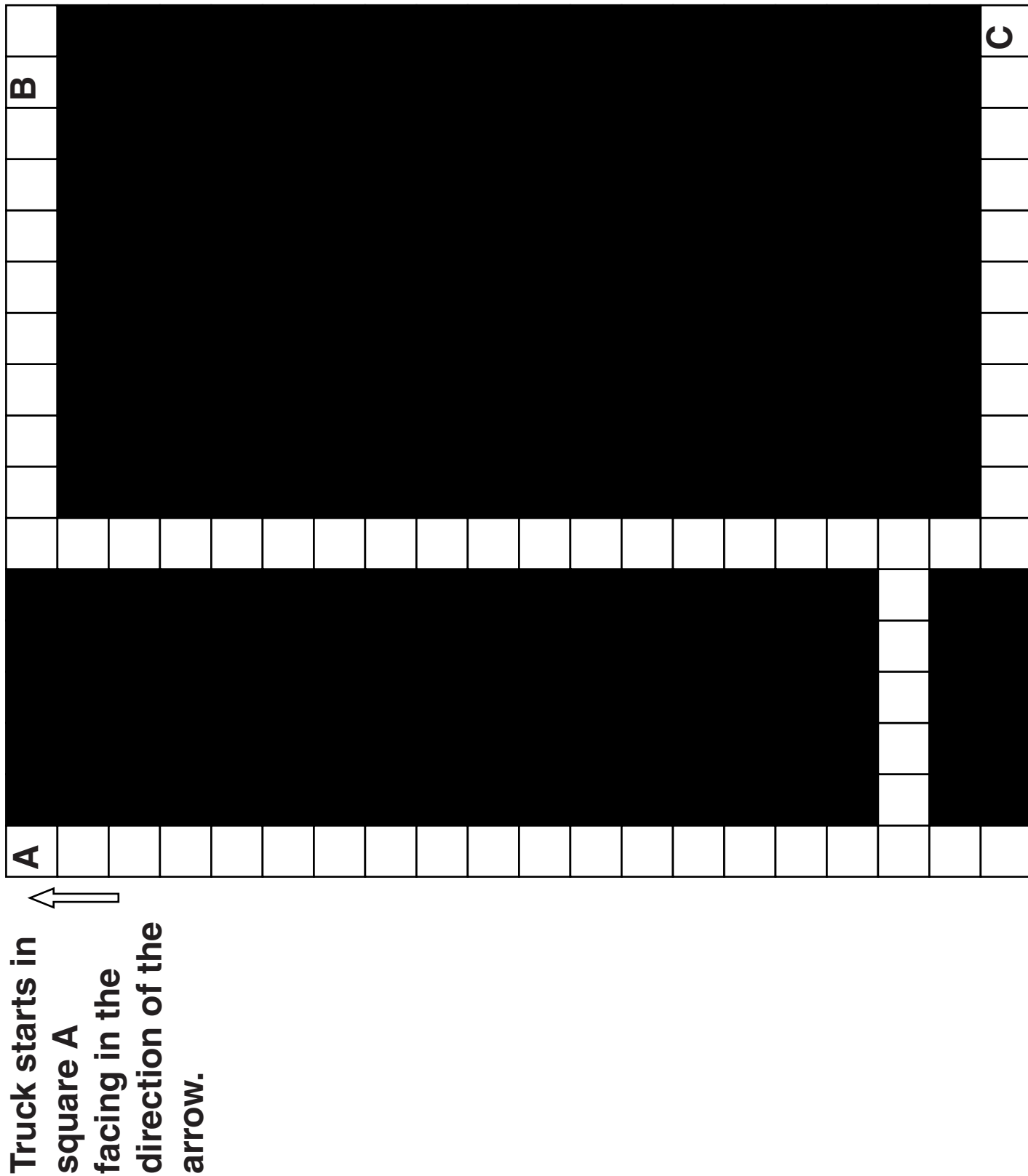


Fig. 3

- (a) The truck starts in square A and needs to go to square B. At square B it will stop for five minutes whilst it is loaded. The truck then needs to move to square C to be unloaded.**

Use the instructions from the table to write a set of instructions to make the truck carry out this task.

[illegible]

[4]

(b) The truck is fitted with a number of sensors.

Identify ONE suitable sensor and give a reason for its use.

Sensor _____

Reason _____

[2]

(c) Apart from motors to drive the wheels, the truck has other output devices.

Identify TWO different output devices that would be found on the truck and state a purpose for each.

1 _____

Purpose _____

2 _____

Purpose _____

_____ **[4]**

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6 Jasmine's family has a desktop computer with internet access. Jasmine has bought her own laptop computer and wants to connect it to the internet at home.

(a) Explain THREE ways that she could do this.

1 _____

2 _____

3 _____

_____ **[6]**

(b) Give TWO advantages to Jasmine of having her own laptop.

1 _____

2 _____

_____ **[2]**

- 7 Thomas runs a book shop. He wants to use a computer to keep records of his suppliers, stock of books and who buys the books from him.**

Explain why Thomas should use a relational database for this task.

[illegible]

[illegible]

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