

1 Several items of data are input to a computer using direct data entry methods. Write down the most appropriate input device to input each item of data.

(a) data written in special ink at the bottom of bank cheques

..... [1]

(b) information on the label of a supermarket product

..... [1]

(c) shaded in boxes on a student's examination answer sheet

..... [1]

(d) debit card details input at an ATM

..... [1]

2 Circle **two** items which are used as output devices.

bar code reader      joystick      laser printer      multimedia projector  
PIN pad      scanner      temperature sensor      touch pad

[2]

3 Tick **true** or **false** next to each of these statements.

	true	false
Computer programs are examples of hardware.		
A Command Line Interface is a form of operating system.		
A tablet computer is larger than a desktop computer.		
A compiler is an example of applications software.		

[2]

- 4 A new computer system storing examination results out of 20 is to be tested using a range of test data. Tick whether each of the marks is an example of **normal** data, **abnormal** data or **extreme** data.

	normal	abnormal	extreme
18			
21			
twenty			
20			

[4]

- 5 A desktop computer is already used in an office which does **not** have an internet connection.

- (a) Name **two** items of hardware which would enable the computer to be connected to a local area network.

1 .....

2 ..... [2]

- (b) Name **one** item of hardware which would enable the network to be connected to the internet.

..... [1]

- (c) Tick whether these statements are **true** or **false**.

	true	false
Booking a theatre ticket is an example of online processing.		
Producing utility bills is an example of online processing.		
An internet browser is used by web designers to test web pages.		
An internet browser uses an inference engine.		

[2]

6 Describe **three** types of medical aid which can be produced using a 3D printer.

1 .....

.....

2 .....

.....

3 .....

..... [3]

7 (a) Explain what is meant by GPS.

.....

.....

.....

.....

.....

..... [3]

(b) Give **two** examples of the use of GPS.

1 .....

.....

2 .....

..... [2]



- 10 A holiday company uses spreadsheets to organise the holidays they offer for scuba divers. In the first two columns, there is a list of holiday codes together with the accommodation offered.

Also in the spreadsheet, there are formulae to manipulate the data stored elsewhere in the spreadsheet.

There is also space to calculate the number of weeks and days each type of holiday has been booked for.

	A	B	C	D	E	F	G	H
1	Definition Code	Type			Booked Code		Weeks	Days
2	A	Accommodation only		=VLOOKUP(E2,\$A\$2:\$B\$8,2)	BB	=SUMIF(\$B\$12:\$B\$22,E2,\$C\$12:\$C\$22)		
3	BB	Bed and breakfast		=VLOOKUP(E3,\$A\$2:\$B\$8,2)	C	=SUMIF(\$B\$12:\$B\$22,E3,\$C\$12:\$C\$22)		
4	C	Caravan		=VLOOKUP(E4,\$A\$2:\$B\$8,2)	L	=SUMIF(\$B\$12:\$B\$22,E4,\$C\$12:\$C\$22)		
5	FB	Full board		=VLOOKUP(E5,\$A\$2:\$B\$8,2)	FO	=SUMIF(\$B\$12:\$B\$22,E5,\$C\$12:\$C\$22)		
6	FO	Flights only		=VLOOKUP(E6,\$A\$2:\$B\$8,2)	HB	=SUMIF(\$B\$12:\$B\$22,E6,\$C\$12:\$C\$22)		
7	HB	Half board		=VLOOKUP(E7,\$A\$2:\$B\$8,2)	FB	=SUMIF(\$B\$12:\$B\$22,E7,\$C\$12:\$C\$22)		
8	L	Liveboard						
9								
10								
11	Name	Type	Number of days					
12	A Sharif	C	7					
13	C Jones	BB	14					
14	C Li	C	10					
15	D Vasquez	FB	7					
16	Da Silva	FO	14					
17	G Wasserburg	HB	10					
18	J Singh	L	14					
19	M Ali	L	7					
20	M Garcia	C	10					
21	N Smith	BB	14					
22	V James	FO	7					
23								

- (a) Explain what the formula in cell D2 does. (Do **not** refer to column headings.)

.....

.....

.....

.....

.....

.....

.....

.....

[3]

- (b) What type of holiday would you expect to see in D5?

.....

[1]









(b) Give **two** other uses of expert systems.

- 1 .....
- 2 ..... [2]

14 A company uses robots to manufacture cars.

Tick **three** advantages for the company of using robots rather than humans to manufacture cars.

	✓
Robots produce the same standard every time.	
Robots don't cost very much to buy.	
Robots don't need programming to perform a task.	
Robots are more accurate.	
Workers are no longer employed.	
Robots don't take breaks.	
Robots can think for themselves.	
Robots never make mistakes.	

[3]







14

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