Candidate	Centre	Candidate
Name	Number	Number
		0



# **GCSE**

251/01

# INFORMATION AND COMMUNICATION TECHNOLOGY (PILOT)

# PAPER 1

# Foundation Tier

P.M. MONDAY, 13 June 2011

l hour

Examiner's Use Only				
Question	Maximum Mark	Mark Awarded		
1	11			
2	2			
3	9			
4	9			
5	6			
6	10			
7	4			
8	5			
9	2			
10	2			
Total Mark	60			

### INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer all questions.

Write your answers in the spaces provided in this booklet.

If you run out of space in the question-and-answer booklet you may use continuation sheets. Number the questions clearly and put your sheets in this question-and-answer booklet.

### INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

# Answer all questions.

1. An estate agent uses Desktop Publishing (DTP) software to create the following business card.



(C	
Tick (✓) which <b>four</b> of the fol	llowing features were used to produce this business card.
CLIP ART	
BORDER ART	2
RIGHT JUSTIFY	3
CENTRE TEXT	4
FONT STYLE	5
Give <b>one</b> feature of the D7 mistakes.	ΓP software which could be used to check for spelling [1]
Give <b>two</b> other <i>types</i> of documents	ments the estate agent could produce using DTP software. [2]
Document 1	
Document 2	
	CLIP ART  BORDER ART  RIGHT JUSTIFY  CENTRE TEXT  FONT STYLE  Give one feature of the Dimistakes.  Give two other types of document 1

1	Type of software	Use in an estate agent's business	
s	Spreadsheet	To work out the profit and loss accounts for the business.	
N	Aultimedia software		
Γ	Oatabase software		
	say how it could be  Health risk		[2]
	Prevention		
		sentences using only the words given in the list below by putting rrect box.	g a
	nplete the following s	rrect box.	g a
	nplete the following s r, A, B or C in the cor A. INFOR B. DATA	rrect box.  RMATION	g a
ette	nplete the following s r, A, B or C in the co A. INFOR B. DATA C. FIGUR	rrect box.  RMATION	g a
lette	nplete the following s r, A, B or C in the cor A. INFOR B. DATA C. FIGUR	ES	g a

(251-01) **Turn over.** 

[1]

3. A sports centre manager has begun to set up a computerised database of members. Part of this database is shown below.

Member Number	Name	Gender	Start Date	Club	Disabled Parking Permit
1432	Davies, Y	M	01/01/2010	Basketball	Y
5276	Ali, R	M	04/05/2010	Tennis	N
2863	Peters, L	F	03/09/2010	Soccer	Y
8234	Mertson, S	M	12/09/2010	Tennis	N
2869	Jones, D	F	03/01/2010	Basketball	Y
2945	Smith, F	F	02/09/2010	Soccer	N
2876	Evans, L	M	14/09/2010	Soccer	N

(a) How	w many <i>records</i> are in this database?	[1
(b) Stat	e the 'keyfield'.	[1
ente for e	manager wants to use validation techniques in the database ring the data. Circle which of the following is the <b>most suitab</b> each field.  not use the same technique twice.	
Field	Validation Techniques	
Gender	PRESENCE CHECK LIST BOX CHECK DIGIT	FORMAT CHECK
Start Da	te PRESENCE CHECK LIST BOX CHECK DIGIT	FORMAT CHECK
	'Gender' field uses coded data e.g. M and F. e one advantage of using coded data.	[1
(e) Hov	v many members in the database shown above are in the 'Tem	nis' Club?

<i>(f)</i>	The manager wants to send a letter to all disabled parking permit holders. Write down the <i>field</i> and the <i>search</i> data needed to get this data from this database.	[1]
(g)	Give <b>one</b> reason why the manager would add a new record to this database.	[1]
(h)	Give one advantage of keeping membership data on a computer database.	[1]
	c cards can be used in shops at the Point of Sale (POS) system commonly call kout'.	ed a
(a)	Give <b>two</b> types of <i>bank card</i> that can be used at the POS.	[2]
(b)	Give a reason why bank cards have a PIN number.	[1]
(c)	Tick ( $\checkmark$ ) to show which <b>two</b> <i>input</i> devices are found at a shop <i>checkout</i> .	[2]
	Tick (✓) two boxes only	
	Weighing scales	
	Card reader 2	
	Speaker 3	
	Printer 4	
(d)	Other than bank cards, give two different ways shoppers can pay for their goods.	[2]
	(i)	
	(ii)	
( )	Bar codes on goods do <b>not</b> contain the <i>Price</i> .	
(e)		

**9** 

5. A student has £100 a week to spend and is trying to save £60 to buy a concert ticket. The student used the following spreadsheet to help him plan his budget.

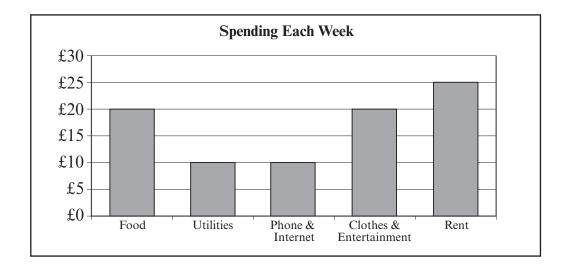
	Α	В
1		
2	Weekly Income	£100
3		
4	Food	£20
5	Utilities	£10
6	Phone and Internet	£10
7	Clothes and entertainment	£20
8	Rent	£25
9	TOTAL	£85
10		
11	Savings	£15

		10			
		11	Savings	£15	
(a) (b)			e total amount he is planning to save in <b>one</b> we which <b>two</b> of the following are <i>cell formatting</i>		[1] this spreadsheet. [2]
			Tick () two	o boxes only	
			Right Align		
			Decimals 2		
			Formulas 3		
			Currency 4		
(c)			label, A, B, C or D in the box to show which ogive the Total Cost in <b>Cell B9</b> .	of the following fo	rmulas could be [1]
	A B C D	=; =;	B9+C9+D9+E9 SUM(B4:B8) B4+B5+B6+B7+B8 Total Cost B:E		

(d) Give a formula which could be used to give the Savings in Cell B11.

[1]

(e) The student produced a graph of his spending as shown below.



Give the *type* of graph he used. [1]



(a)	What is a <i>network</i> ?	
( <i>u</i> )	what is a network:	
(b)	Tick ( $\checkmark$ ) the <b>two</b> items needed when a new pupil is added to the school network.	
	Tick (✓) two boxes only	7
	IT teacher	
	Username 2	
	Password 3	
	IT room 4	
(c)	Give <b>two</b> rules about passwords a pupil should obey.	
	Rule 1	
	Rule 2	
	Tick $(\mathcal{I})$ the <b>two</b> sentences which are <i>advantages</i> of using a network.	
( <i>d</i> )	Tiek (*) the two sentences which are davantages of doing a network.	
(d)	Tick () two boxes only	y
(d)		y
(d)	Tick (✓) two boxes onl	y
(d)	Tick (✓) two boxes only Networks are more reliable than stand alone computers	y
(d)	Tick (/) two boxes only  Networks are more reliable than stand alone computers  Networks share viruses	y
(d)	Tick (✓) two boxes only  Networks are more reliable than stand alone computers  Networks share viruses  Networks share programs  3  3	y
(d)	Tick (✓) two boxes only  Networks are more reliable than stand alone computers  Networks share viruses  Networks share programs  3  3	y
(d)	Tick (✓) two boxes only  Networks are more reliable than stand alone computers  Networks share viruses  Networks share programs  3  3	y

		0
(e)	Teachers use email to send messages to other teachers on the network.	
	Tick (✓) the <b>two</b> sentences which are <i>advantages</i> of using email on the school network. [2]	
	Tick (✓) two boxes only	
	Email is easy to use	
	Emails are likely to spread viruses	
	You can record when the email is sent	
	Emails can be edited  4	
<i>(f)</i>	Teachers can also put notices to pupils on the school's intranet.	
	Give an example of a suitable type of notice a teacher might put on the intranet for pupils. [1]	
		(1



Turn over.

(251-01)

7. The following poster appeared in a shop.

# BE SAFE ONLINE Evening classes on internet safety for parents and all home computer users. For further details contact the ICT department at the school.

(a)	Describe <b>two</b> pieces of advice home users might be given about <i>virus protection</i> . [2]
	Advice 1
	Advice 2
(b)	Give <b>two</b> problems which could arise for <i>children using the Internet at home.</i> [2]
	Problem 1
	Problem 2



(a)	Tick (✓) <b>two</b> essential facilities needed for a website.	[2
	Tick (✓) two boxes only	
	An accountant 1	
	A spreadsheet 2	
	An internet service provider [3]	
	A web address (url)	
(b)	Customers can buy the company's products online (online shopping).	
	Other than being able to shop from home, give one advantage for the customer shopping.	of online
(c)	Give <b>one</b> <i>disadvantage</i> of online shopping.	[1



				Omj
9.	A computer controls a burglar alarm. This burglar alarm is linked to a sensor and an output device.			
	(a)	Give a suitable sensor which could be used in this burglar alarm system.	[1]	
	(b)	Give a suitable <b>output device</b> which could be used in this burglar alarm system.	[1]	
10				<u>(2</u> )
10.	A co	mputer uses wireless devices.		
	(a)	Name one wireless device used with a computer.	[1]	
	(b)	Give <b>one</b> advantage of using <i>wireless</i> devices.	[1]	
				_