Write your name here		
Surname	Other na	ames
Edexcel Functional Skills	Centre Number	Candidate Number
Mathematic Level 1	CS	
10–14 January 2011		Paper Reference
Time: 1 hour 30 minutes		FSM01/01
You must have: Pen, calculator, HB pencil, erase protractor, compasses.	r, ruler graduated in cm	and mm,

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer all questions.
- Answer the questions in the spaces provided
 there may be more space than you need.
- Calculators may be used.

Information

- The total mark for this paper is 48.
- The marks for each question are shown in brackets
 use this as a guide as to how much time to spend on each question.



 Where you see this sign you must show clearly how you get your answers because marks will be awarded for your working out.

Advice

- Read each question carefully before you start to answer it.
- Show all stages in the calculations.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.





SECTION A: Being self-employed

Answer all questions in this section.

Write your answers in the spaces provided.

1 Phil is a self-employed joiner and window fitter.

The table shows Phil's monthly earnings last year.

Month	Earnings
January	£1300
February	£800
March	£2400
April	£2200
May	£2650
June	£2850
July	£3000
August	£3150
September	£2500
October	£2150
November	£1600
December	£1650

Phil is self-employed.

He does not earn money when he is on holiday.

(a) In which month do you think Phil should go on holiday next year?

Use the information in the table to explain your answer. (2)

Use the box below to show your answer.



Phil works out his earnings for each quarter last year.

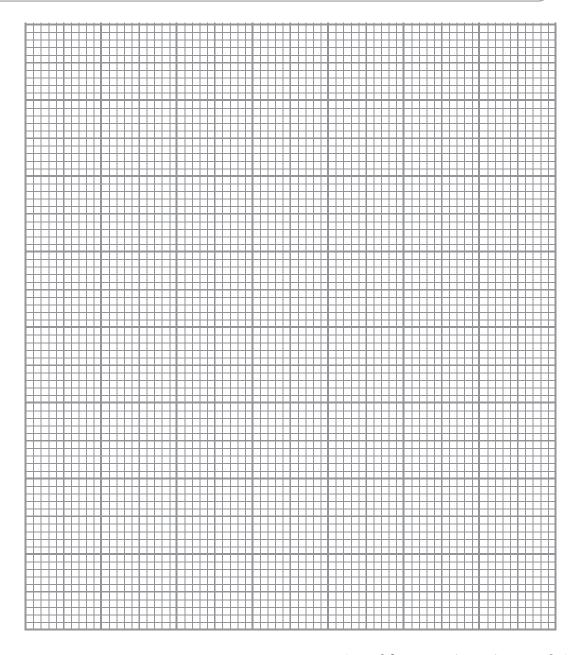
This table shows the information.

Quarter	Earnings
spring	£4500
summer	£7700
autumn	£8650
winter	£5400

He wants to show his earnings each quarter as a graph or chart.

(b) Draw a graph or chart for Phil.

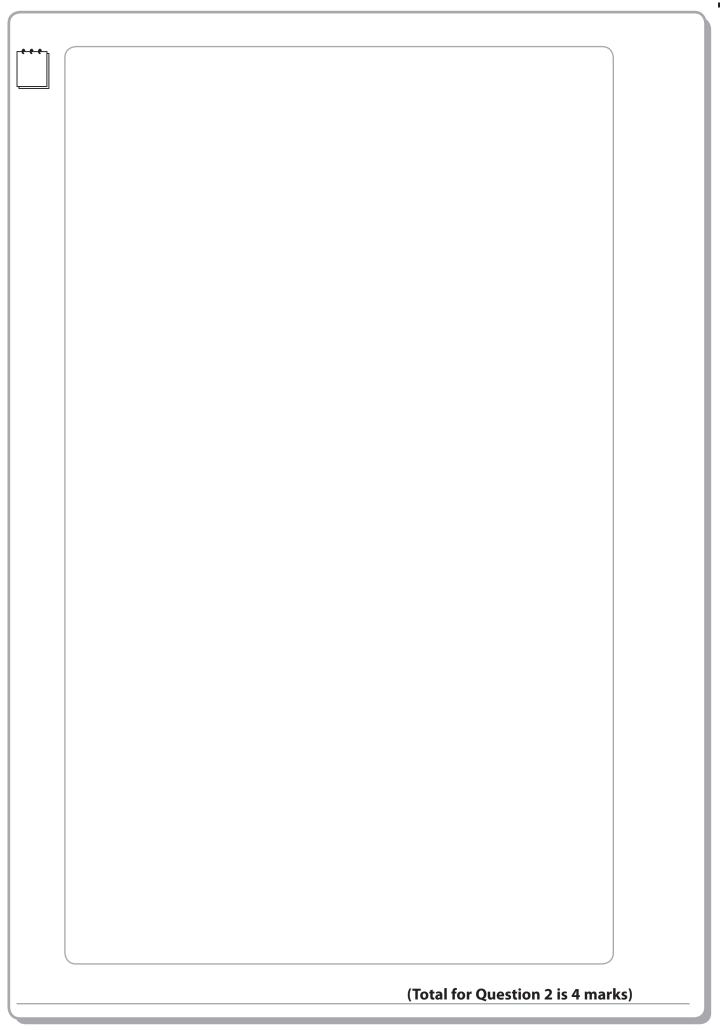
(3)



(Total for Question 1 is 5 marks)

2	Phil's total earnings were:		
	£28 314 three years ago £27 204 two years ago £26 250 last year		
	Phil estimates his earnings per month. He works out how much he earns per month each year. He says,		
	"My earnings went down by more than £70 per month each year."		
	Do you think Phil's statement is correct?	(4)	
_ • •	Use the box below to show your calculations.		
		,	







3 Garcia wants to put a shed in his garden.

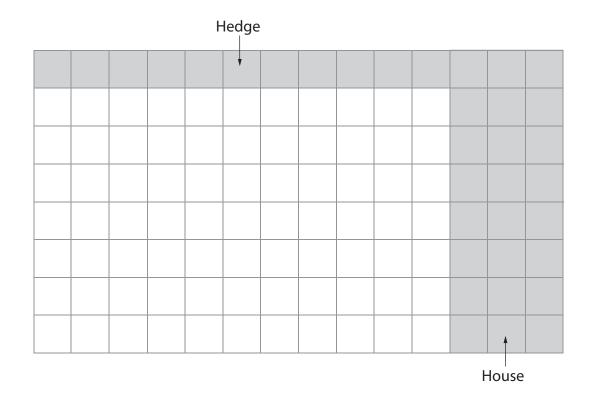
The base of the shed is a rectangle. The rectangle is 3 m long and 2 m wide.

Garcia wants the shed to be at least 5 m from the house. Garcia wants the shed to be at least 2 m from the hedge.

He has a plan of the garden.

(a) Show the shed on Garcia's plan.

(2)



Key: 1 cm on the plan = 1 m in the garden

Garcia hires Phil to do some jobs at his house. The table shows the time Phil expects to take to do each job. It also shows the order Phil will do the jobs in.

Job	Time
Fit 2 small windows	45 minutes per window
Tea break	30 minutes
Fit a medium window	1 hour 15 minutes
Fit a large window	1 hour 45 minutes
Lunch break	45 minutes
Put up the shed	4 hours

Phil starts the first job at 9am.

(b) Write a job plan for Phil's day.	
Your plan should include the time he starts and finishes each job.	(5)
Use the box below to show your plan.	

(Total for Question 3 is 7 marks)

SECTION B: The wedding

Answer all questions in this section.

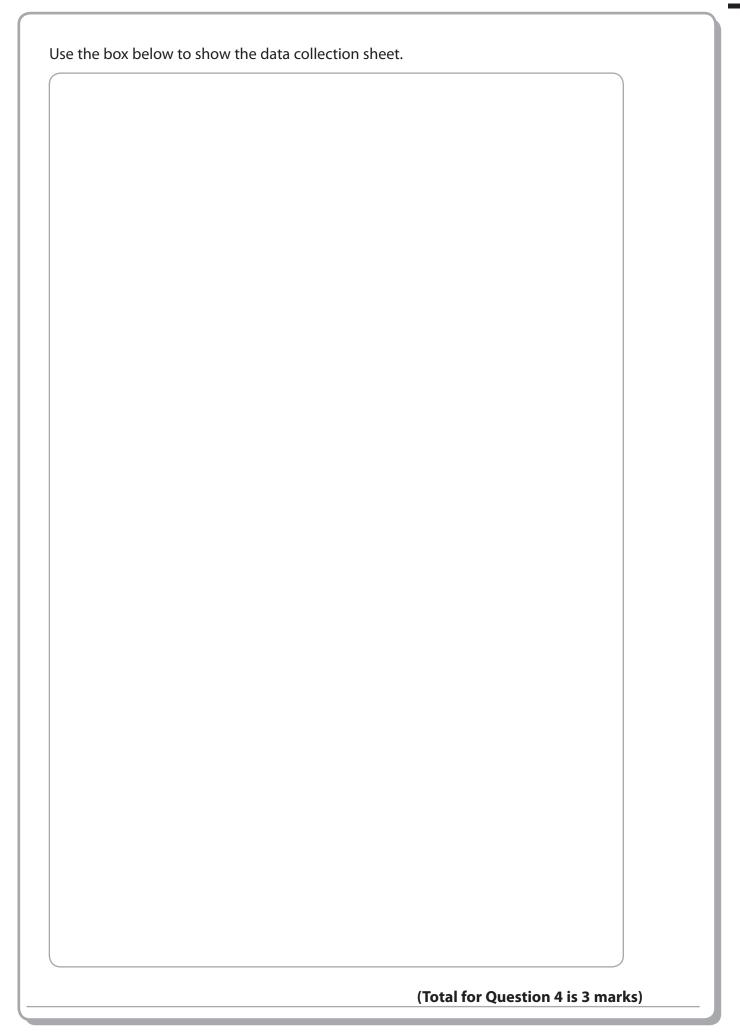
Write your answers in the spaces provided.

4 Chris and Kerry are planning their wedding.
They want to find out what each of their guests would like to eat.
The menu below shows the meal choices.

Starter	Main meal	Dessert
soup	chicken	ice cream
fruit salad	braised lamb	fudge cake
prawn cocktail	salmon	cheesecake

Chris and Kerry want to record the meal choices of each of their guests.

Design a data collection sheet to record the meal choices of each guest. (3)





5 There will be 200 people at the wedding including Chris and Kerry. In the room for the wedding there will be: one large rectangular table for 10 people circular tables for up to 8 people per table They will use the large rectangular table. (a) How many circular tables will they need? (3) Use the box below to show your calculations.

Chris hires a suit to wear at the wedding. The suit costs £160 to hire. Chris gets a 10% discount. (b) How much discount does Chris get? (2) Use the box below to show your calculations. (Total for Question 5 is 5 marks)



6 Chris and Kerry will have their wedding at a hotel.

They have information from three hotels about the cost.

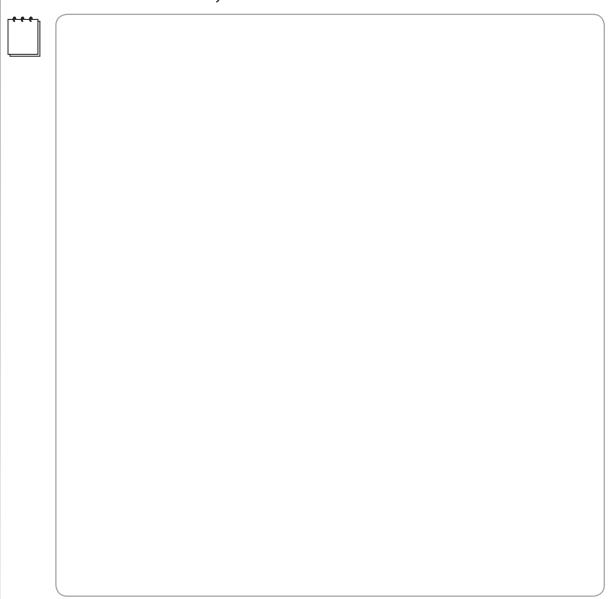
	Derby Hotel	Aspen Hotel	Station Hotel
Room hire	£2000	Free	£1000
DJ	Free	£300	£200
Meals	£10 per person	£15 per person	£12 per person

There will be 200 people at the wedding including Chris and Kerry.

Chris and Kerry have a budget of £3500

(a) Which hotel should Chris and Kerry choose? (5)

Use the box below to show your calculations.



Chris and Kerry are going to Italy for their honeymoon. The total cost of the honeymoon is £4320 Chris and Kerry have already paid a £400 deposit. They will pay the rest of the money by making 16 equal monthly payments. (b) How much will they pay each month? (3) Use the box below to show your calculations. (Total for Question 6 is 8 marks)



SECTION C: The bike ride

Answer all questions in this section.

Write your answers in the spaces provided.

7 Sanjay organises a charity bike ride called the 'ManScot' bike ride.

The bike ride has three stages.

Stage 1 Manchester to Leeds

Stage 2 Leeds to Carlisle

Stage 3 Carlisle to Edinburgh

The distances, in km, between the cities are shown in the table.

Manchester			
64	Leeds		
160	148	Carlisle	
279	260	119	Edinburgh

(a) Calculate the total distance of the bike ride.

(3)

Use the box below to show your calculations.

Anne does the 'ManScot' bike ride.

First, Anne needs to buy the following items.

Item	Cost	Quantity
Water bottle	£7.50	2
Cycling shoes	£65.00	1
Cycling vest	£24.50	2
Cycling shorts	£17.50	1
Sunglasses	£35.00	1

Anne has a budget of £200

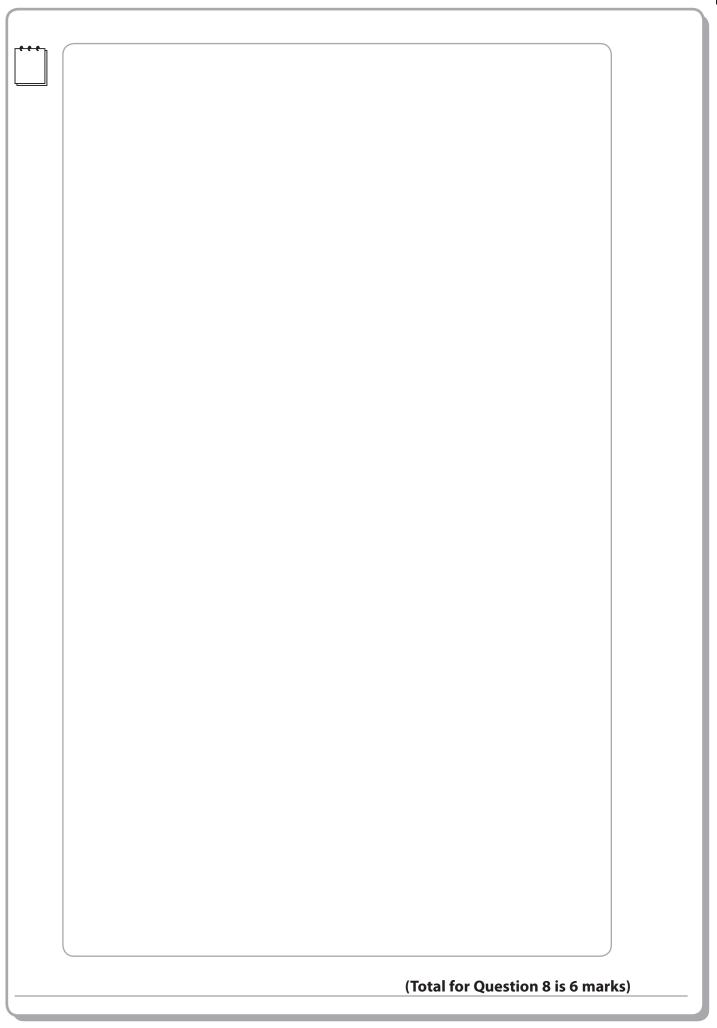
(b) How much money will Anne have left from her budget? (3)

Use the box below to show your calculations.



(Total for Question 7 is 6 marks)

8 Sally takes part in a different charity bike ride from Nottingham to Liverpool. It is called the 'NottPool' bike ride. The total distance of the bike ride is 134 kilometres. The bike ride has 8 equal stages. Sally injures her leg during the bike ride and has to stop. She completes 72 000 metres of the bike ride. Sally is sponsored by two different companies. Cycles'R'Us Health Food Shop £15 per kilometre £255 per stage completed completed Which company will give Sally the most sponsor money? (6) Use the box below to show your calculations.



9 This headline was in a newspaper last year. **Charity Bike Rides** NottPool raises £2 for every £1 raised by ManScot. Sanjay knows that ManScot raised £150 000 last year. The total raised last year by the two bike rides was £450 000 (a) Was the newspaper headline correct? (3) Use the box below to explain your answer.

Charity Bike Rides (Total for Question 9 is 4 marks	(Total for Question 9 is 4 marks	Charity Bike Rides (Total for Question 9 is 4 mark	What do you th	ink this year's newspaper headline will say?	(1)
(Total for Question 9 is 4 marks	(Total for Question 9 is 4 marks	(Total for Question 9 is 4 mark	the box below to	show your answer.	
				Charity Bike Rides	
	(Total for Question 9 is 4 marks) (TOTAL FOR PAPER IS 48 MARKS)				
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