

Write your name here

Surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

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Candidate Number

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Mathematics

Level 1



19–23 May 2014

Time: 1 hour 30 minutes

Paper Reference

FSM01/01

You must have:

Pen, calculator, HB pencil, eraser, ruler graduated in cm and mm, protractor, compasses.

Total Marks

--

My signature confirms that I will not discuss the content of the test with anyone until the end of the 5 day test window.

Signature: _____

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.
- Sign the declaration.
- 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.**
- **Check your working and your answers at each stage.**



Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.

Turn over ►

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PEARSON

SECTION A: Barbecue

Answer all questions in this section.

Write your answers in the spaces provided.

- 1 Harry wants to organise a barbecue at the cricket club for his 50th birthday.
He wants to have the barbecue on the Saturday before his birthday.
Harry's birthday is on 12th August.
He needs people to reply to his invitation by 7 days before the barbecue.

August 2014						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

(a) What dates should Harry put on the invitation?

(2)

Write the dates on the invitation below.

Harry's 50th birthday barbecue

You are invited to my barbecue at the cricket club

On

Please reply by

Starts at 2.30 pm



120 people reply to say they can come to the barbecue.

Harry's wife tells him $\frac{1}{4}$ of the people are vegetarian.

Harry thinks this means he needs vegetarian meals for 20 people.

(b) Is Harry correct?
Show why you think this.

(2)

Use the box below to show clearly how you get your answer.



(Total for Question 1 is 4 marks)



2 Harry is going to buy the meat for the barbecue.

He finds these prices.

Item	Number in pack	Price of pack
burgers	50	£11.50
sausages	40	£12.00
chicken pieces	25	£8.00

Harry decides to buy meat for 100 people.

He wants each person to have

- one burger
- two sausages
- one piece of chicken.

Harry has a budget of £120 to buy the meat.

Does he have enough money to buy all the meat?

(6)

Use the box below to show clearly how you get your answer.





A large, empty rectangular box with rounded corners, intended for writing an answer.

(Total for Question 2 is 6 marks)



3 Harry wants to put bunting around the walls in the main room of the cricket club.

The room is in the shape of a rectangle 12 m by 10 m.



The bunting should be at least 2 times the perimeter of the rectangle.

Harry buys 90 m of bunting.

(a) Has Harry bought enough bunting?

(3)

Use the box below to show clearly how you get your answer.



A large empty rectangular box for writing the answer and showing the working.



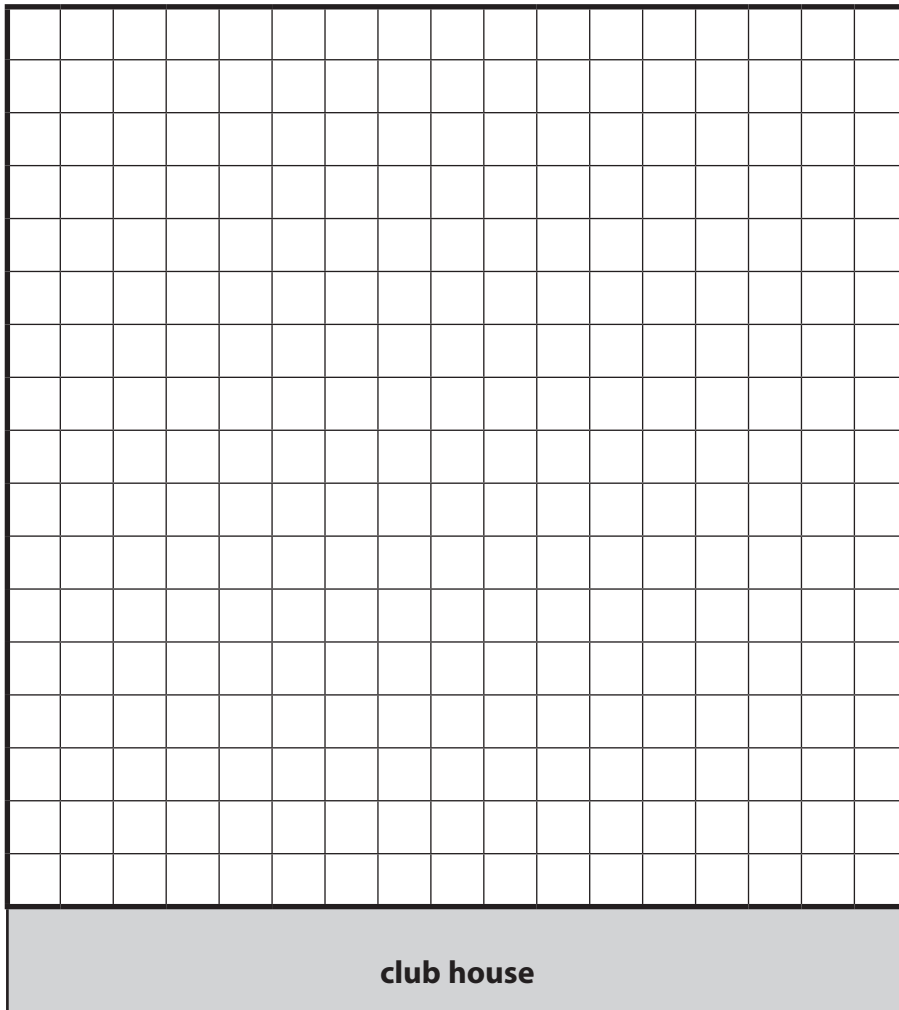
Harry needs to decide where to put the barbecue on the patio at the cricket club.

He makes a plan of the patio on a grid.

The space for the barbecue needs to be

- a rectangle 400 cm by 150 cm
- at least 200 cm from the edge of the patio
- at least 300 cm from the club house.

(b) Draw the space for the barbecue on the plan. Remember to use the key. (3)



Key: 1 square on the grid is 50 cm by 50 cm on the patio
—— edge of patio

(Total for Question 3 is 6 marks)



SECTION B: Cycling holiday

Answer all questions in this section.

Write your answers in the spaces provided.

4 Matt and his friends plan to go on a cycling holiday to Ireland.

Matt wants to find out if they want to

- travel by ferry or plane
- go in July or August.

Matt wants to record the information for 6 people on a data collection sheet.

(a) Design a data collection sheet for Matt.

(3)

Use the box below for your data collection sheet.



Matt and his friends decide to camp on their holiday.

Matt and Imran each need to buy a new sleeping bag.
They find this advert for a sleeping bag they both like.

Alpha sleeping bags

Usual price: £75

Special offer: Buy one get the second half price

Imran says

If we put our money together and use the special offer then we will save £20 each.

(b) Is Imran correct?
Show why you think this.

(3)

Use the box below to show clearly how you get your answer.



Large empty box for writing the answer.

(Total for Question 4 is 6 marks)



P 4 5 1 4 4 A 0 9 2 0

5 Matt cycles every week to prepare for his holiday.

He records the number of kilometres he cycles.

Week 1	Week 2	Week 3	Week 4	Week 5
180	254	288	272	264

Matt says

'I cycled a mean average of 250 km a week.'

(a) Has Matt worked out the mean average correctly?

(3)

Use the box below to show clearly how you get your answer.



(b) What is the range of the weekly number of kilometres Matt cycled?

(1)

Write your answer in the box below.



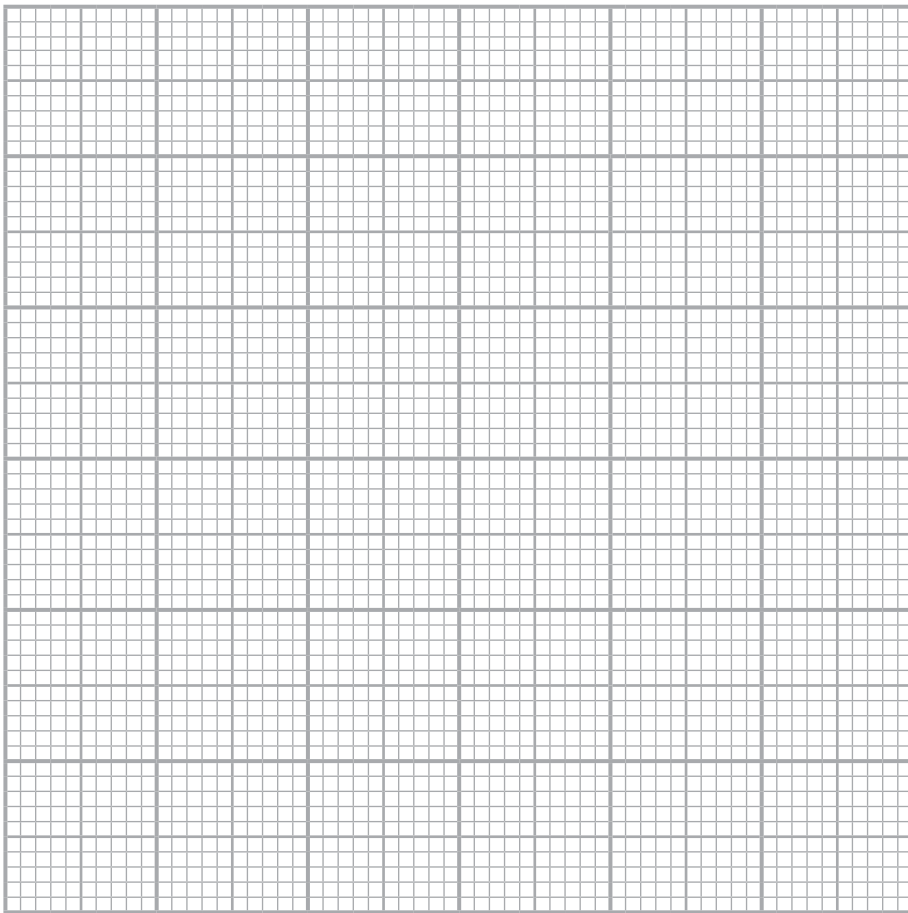
Matt has to give a presentation at college.

He decides to talk about training for the cycling holiday.

Matt wants to show a graph or chart of the number of kilometres he cycled.

(c) Draw a graph or chart for Matt.

(3)



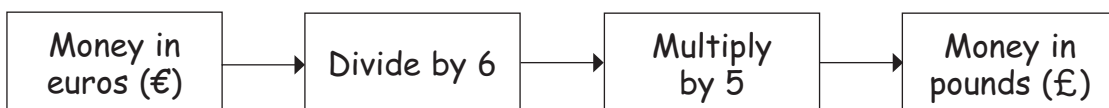
(Total for Question 5 is 7 marks)



P 4 5 1 4 4 A 0 1 1 2 0

- 6 Matt needs to buy a new cycle helmet in Ireland.
He sees one he likes for €48

Matt uses this rule to change between euros (€) and pounds (£).



Matt knows the same helmet costs £40 in England.

He thinks this rule shows the price in Ireland is the same as the price in England.

Is Matt correct?
Show why you think this.

(3)

Use the box below to show clearly how you get your answer.



(Total for Question 6 is 3 marks)



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Please turn over for Question 7.



SECTION C: The garage

Answer all questions in this section.

Write your answers in the spaces provided.

- 7 Becky works in the office at a garage.



She has to make some bookings for customers on Monday.

- Mr Clark, service, 3 hours
- Dev Patel, MOT and service, 3 hours 30 minutes
- Ms Shah, MOT, 1 hour, after 10 am
- Karon Little, repair, 2 hours

There are already some bookings in the diary.

Becky has to write the name of the customer and the job in the diary.

Make bookings for these customers.

(4)

Write the bookings in the diary on page 15.



Monday	Name of car mechanic		
	Mark	Jo	Kim
8.30 – 9.00			
9.00 – 9.30			
9.30 – 10.00	Service		
10.00 – 10.30	Mr Bowen		
10.30 – 11.00		Service	
11.00 – 11.30		Ms Lang	
11.30 – 12.00	Break		
12.00 – 12.30			Break
12.30 – 1.00		Break	
1.00 – 1.30			
1.30 – 2.00			
2.00 – 2.30		MOT	
2.30 – 3.00		Chris Heap	MOT + service
3.00 – 3.30			Jay Lau
3.30 – 4.00			
4.00 – 4.30			
4.30 – 5.00			

(Total for Question 7 is 4 marks)



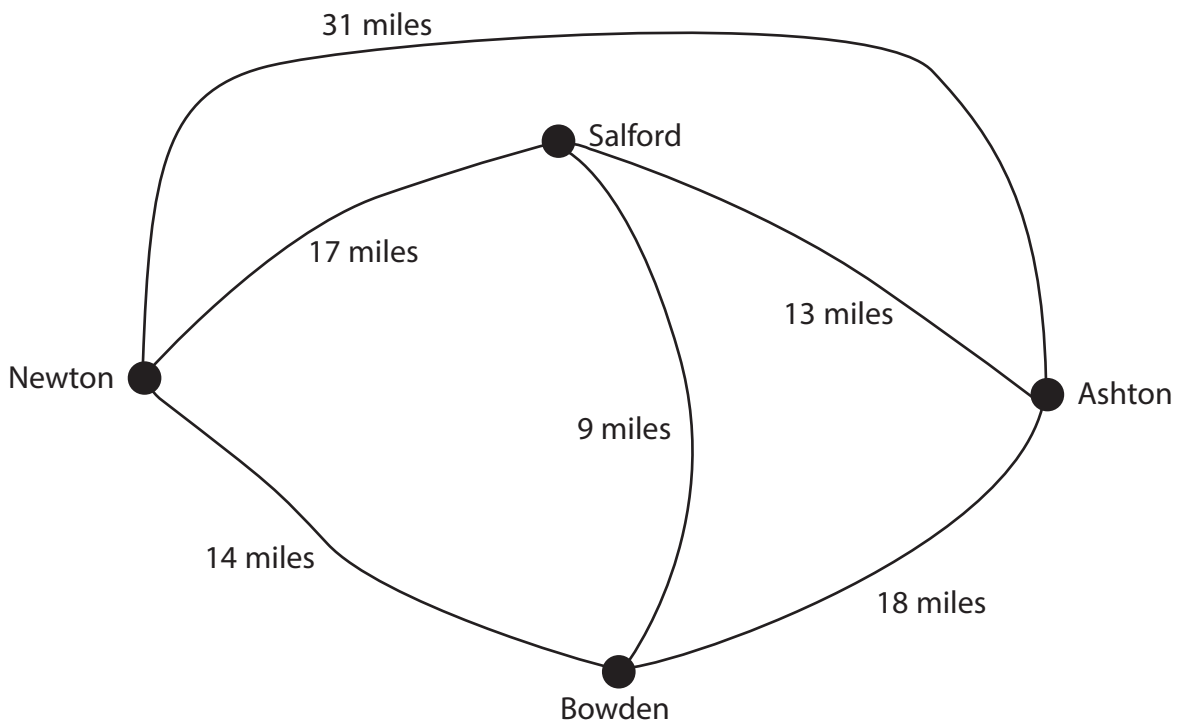
8 The garage is in Salford.

On Friday Becky needs to

- visit a taxi company in Bowden
- collect some tyres in Ashton
- collect parts in Newton.

Becky needs to start and finish in Salford.
She wants to take the shortest route possible.

The diagram shows the distances between the towns.



Find a route for Becky.
What is the total distance of your route?

(4)



Use the box below to show clearly how you get your answer.



A large, empty rectangular box intended for the student to show their work.

(Total for Question 8 is 4 marks)



9 Becky needs to work out the VAT on a bill for a customer.

The bill for parts and labour comes to £138.50
VAT is 20%

(a) Work out 20% of £138.50

(2)

Use the box below to show clearly how you get your answer.



Becky needs to complete the bill for the customer.

(b) Complete the bill.
Show how you have checked your answer.

(3)

Write the amounts in the bill below.

Description	
Parts and labour	£138.50
VAT @ 20%	
Total	

Use the box below to show how you have checked your answer.



(Total for Question 9 is 5 marks)



10 Mark services an old motorbike.

The motorbike needs to have a mix of petrol and oil in the ratio 50:1

The customer used 12 litres of petrol with 300 ml of oil.

Did the customer use petrol and oil in the correct ratio?

(3)

Use the box below to show clearly how you get your answer.



A large empty rectangular box for writing the answer and showing the working.

(Total for Question 10 is 3 marks)

TOTAL FOR PAPER IS 48 MARKS



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