

Write your name here

Surname

Other names

**Pearson Edexcel  
Functional Skills**

Centre Number

--	--	--	--	--

Candidate Number

--	--	--	--

# Mathematics

Level 1



16–20 June 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 ►

P43924RA

©2014 Pearson Education Ltd.

1/1/1/1



P 4 3 9 2 4 R A 0 1 2 0

**PEARSON**

## SECTION A: The Priory Hotel

Answer all questions in this section.

Write your answers in the spaces provided.

- 1 Janice needs to go to some meetings in Lincoln.  
She stays at the Priory Hotel.

She needs to have some clothes cleaned.

The table shows prices for cleaning clothes at the hotel.

Item	Price
two piece suit	£11.10
three piece suit	£13.45
trousers	£6.45
jacket	£7.70
shirt	£3.15
blouse	£5.45
skirt	£5.95
dress	£9.70

Janice wants these items cleaned

- 1 two piece suit
- 1 dress
- 2 blouses

She thinks the total cost to clean these items will be less than £30

(a) Is Janice correct?

Show why you think this.

(3)

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



Janice goes to Lincoln on a bus.

Here is part of the bus timetable from the hotel to Lincoln.

<b>Hotel</b>	0905	0935	1005	1035	1105
<b>Lincoln</b>	0947	1019	1047	1119	1147

Here is part of the bus timetable from Lincoln to the hotel.

<b>Lincoln</b>	1438	1508	1538	1628	1658
<b>Hotel</b>	1520	1550	1620	1710	1742

Janice needs to be in Lincoln for at least 6 hours.

She wants to arrive back at the hotel before 1730

Janice needs a plan for the day.

The plan must show the time the bus leaves the hotel and arrives in Lincoln.

The plan must show the time the bus leaves Lincoln and arrives back at the hotel.

(b) Make a plan for Janice.

(4)

Write your plan in the box below.

(Total for Question 1 is 7 marks)



- 2 Colin works at the Priory Hotel.  
He collects guest room feedback forms.

Here is a completed form.

This customer has given 'Comfort of bed' a score of 6

	Poor				Excellent		
	1	2	3	4	5	6	7
Comfort of bed						✓	
Quietness of guest room					✓		
Room lighting							✓
In-room facilities						✓	
Internet access		✓					

Colin needs to work out the mean average score for each form.

He thinks the mean average score for this form is more than 5

(a) Is Colin correct?

Show why you think this.

(3)

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



Colin is going to reduce the price of family rooms by 20%.

The normal price of a family room is £190 each night.

(b) How much money does Colin take off the price?

(2)

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



Colin wants to have a special offer for standard rooms in January.  
He wants a standard room to cost between £360 and £370 for 6 nights.

Colin thinks he could use these two special offers.

**Special Offer A**

standard room  
normal price £125 each night

January offer  
£61 each night

**Special Offer B**

standard room  
normal price £125 each night

January offer  
2 nights for the price of 1

(c) Do both these special offers give a cost between £360 and £370 for 6 nights?

(4)

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



A large empty rectangular box for writing the answer.



A large, empty rectangular box with rounded corners, intended for the student's answer to Question 2.

**(Total for Question 2 is 9 marks)**



**SECTION B: Family visit**

**Answer all questions in this section.**

**Write your answers in the spaces provided.**

- 3** Suzy's family are coming to stay at her house.  
She wants to work out where to put a bed in her spare room.

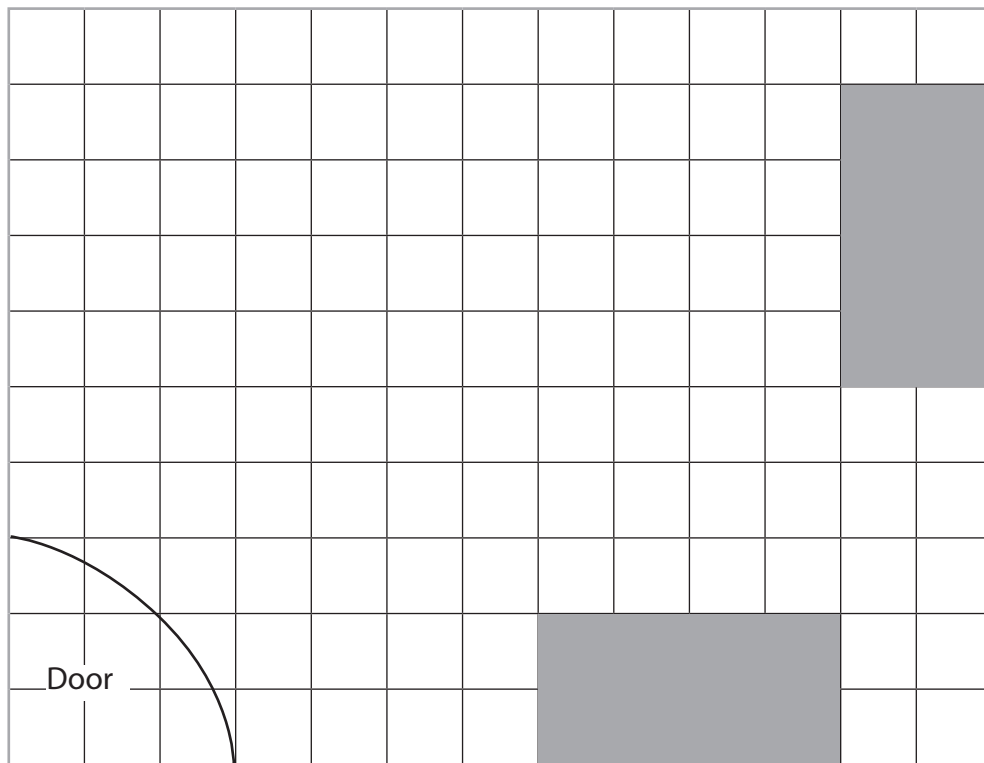
The bed

- needs a rectangular floor space 200 cm by 100 cm
- must be at least 50 cm from the furniture and the door.

Suzy draws a plan of the floor on a grid.

Draw the space for the bed on the plan for Suzy.

(2)



Key: 1 square on the plan is 25 cm by 25 cm on the floor

 furniture

**(Total for Question 3 is 2 marks)**





4 Suzy is going to cook bacon for breakfast on 3 mornings.

She makes a note of who she needs to cook for.

2 young children  
1 teenager  
3 grown ups  
1 grandparent

Each morning Suzy is going to cook

1 piece of bacon for each young child

2 pieces of bacon each for all the other people.

Suzy has 5 packs of bacon.

Each pack contains 8 pieces of bacon.

(a) Does Suzy have enough bacon to cook for 3 mornings?

(4)

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



A large empty rectangular box for writing the solution to the problem.



Suzy wants a seating plan for a family dinner.  
 She invites her friend Des to the family dinner.

Suzy makes a list of the people to put on her seating plan.

**Young children**

Levi (L)  
 Gaby (G)

**Female adults**

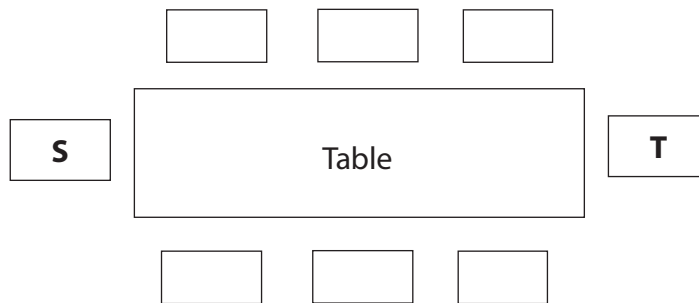
Suzy (S)  
 Marcia (M)  
 Kelly (K)

**Others**

Tom (T)  
 Bertie (B)  
 Des (D)

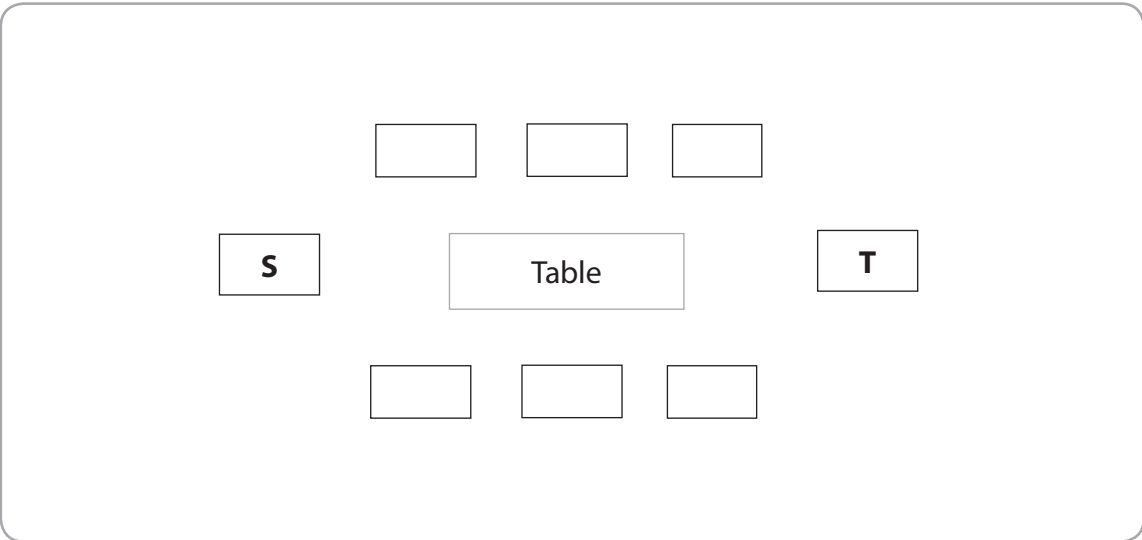
Suzy does not want the young children to sit next to each other.  
 She does not want any of the female adults to sit opposite each other.

Suzy starts a seating plan.  
 She marks her place with an 'S' and Tom's place with a 'T'.



(b) Complete the seating plan for Suzy. (2)

Fill in your plan in the box below.



**(Total for Question 4 is 6 marks)**



5 Suzy is going to take the family to Cleethorpes.

She writes a travel note.

Leave home 10 am  
Journey time to Cleethorpes 1 hr 15 mins  
Stay at Cleethorpes  $5\frac{1}{2}$  hours  
Journey time back home 1 hr 15 mins

(a) What time should they arrive back home?

(3)

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



A large empty rectangular box for writing the solution to the problem.



The family are going to see a film in Cleethorpes.

Suzy needs to buy tickets for

- 2 children
- 1 teenager
- 3 adults
- 1 senior.

Here are the costs of the tickets.

<b>Ticket</b>	<b>Cost</b>
Adult	£8.70
Child	£6.60
Family (1 adult and 3 children)	£26.40
Family (2 adults and 2 children)	£26.40
Teenager	£6.70
Senior	£6.70

Suzy wants to pay as little as possible for the tickets.

(b) Which tickets should Suzy buy?

What is the total cost?

You must show that these tickets cost as little as possible.

(5)

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



A large, empty rectangular box with rounded corners, intended for the student's answer to Question 5.

**(Total for Question 5 is 8 marks)**



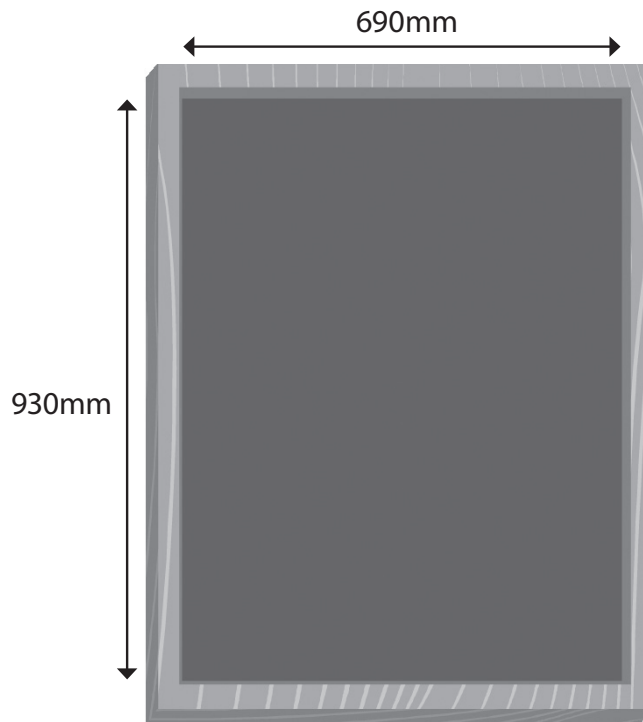
### SECTION C: Business Enterprise Centre

Answer all questions in this section.

Write your answers in the spaces provided.

- 6 John works at the Business Enterprise Centre.

He has a display board 690 mm wide and 930 mm high.



John has to put 2 notices on the display board.  
He needs to use the same paper size for both notices.

Paper size	Size in mm
A0	1189 by 841
A1	841 by 594
A2	594 by 420
A3	420 by 297
A4	297 by 210
A5	210 by 148

John is going to put the 2 notices on the top half of the display board.  
He wants to use the largest paper size he can.

(a) What paper size should John use?

(4)



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



John wants to put an advert for the centre in the local newspaper.  
Here is the rule for the total cost of an advert in the newspaper.

- £10 for the first 5 cm length
- then add £2.50 for each additional 1 cm length

John wants to buy an advert for £25

(b) What length of advert can John buy for £25?

(3)

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



**(Total for Question 6 is 7 marks)**





**7** The centre is open from 0800 to 1800 every Monday to Saturday.

The toilets at the centre need to be checked every 2 hours.

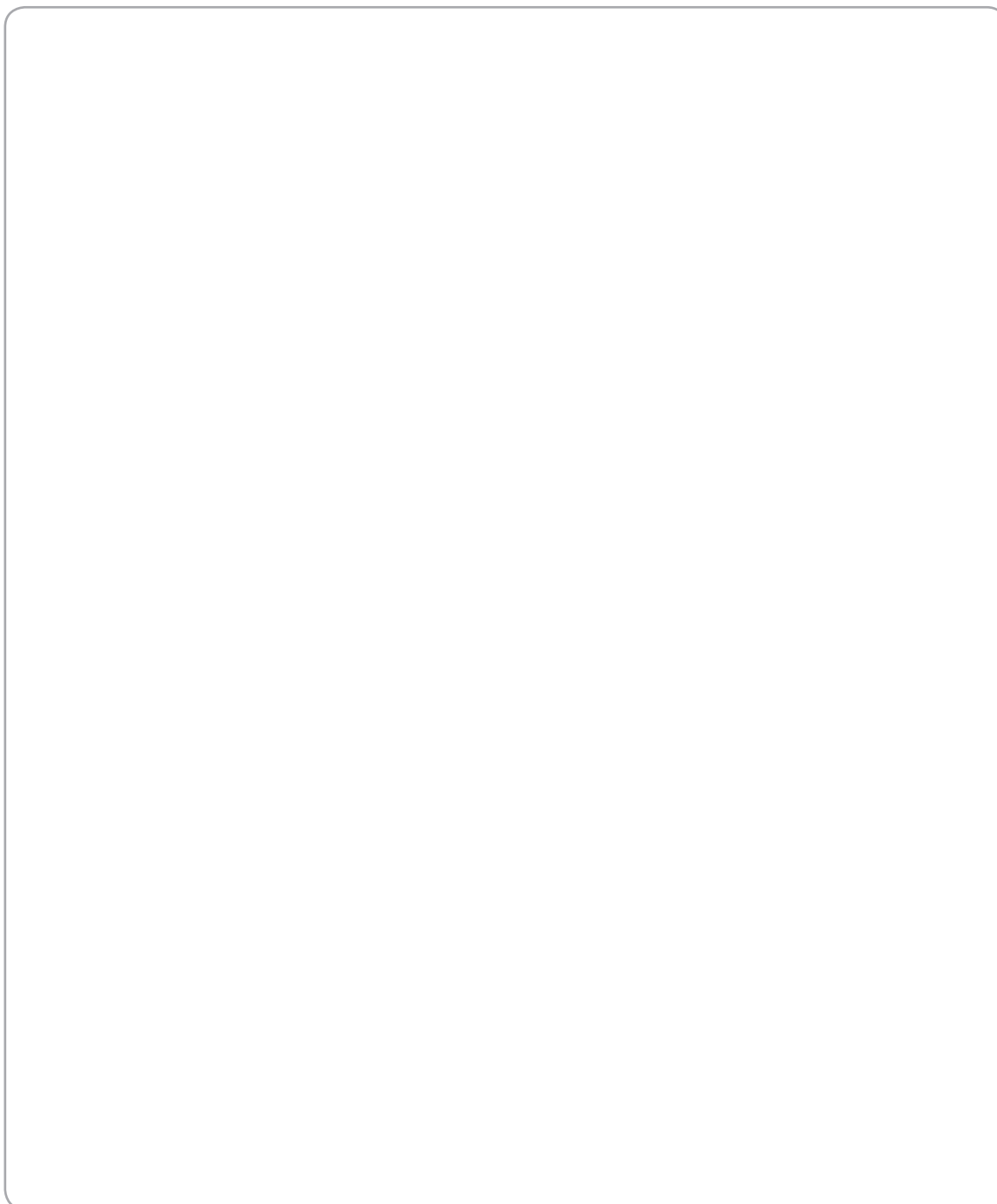
John needs a form to record the checks for one week.

The form must show the time the toilets are checked.

Design a form for John.

**(3)**

Show your form in the box below.



**(Total for Question 7 is 3 marks)**



8 Ashley takes an order for coffee for a meeting.

The client says

Can we have coffee at twenty to two this afternoon?

Ashley needs to write down this time.

(a) Write this time using either the 12 hour clock or the 24 hour clock.

(1)

Write your answer in the box below.

The client orders jugs of coffee for a group of 14 people.

Each jug contains 2 litres of coffee.

Ashley serves the coffee in cups.

Each cup holds 400 ml.

Ashley thinks that 3 jugs are more than enough to serve each person a full cup of coffee.

(b) Is Ashley correct?  
Show why you think this.  
Show a check of your answer.

(5)



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



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

---

**(Total for Question 8 is 6 marks)**

---

**(TOTAL FOR PAPER IS 48 MARKS)**



**BLANK PAGE**

