

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



17 – 21 July 2017

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 a **black** 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 to how much time to spend on each question.*
- **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.**
- **This sign shows where marks will be awarded for showing your check.**



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: Activity centre

Answer all questions in this section.

Write your answers in the spaces provided.

- 1 Sally wants her two children to have gymnastics lessons at an activity centre. She finds this information about gymnastics lessons at the activity centre.

Course	Day	Time
Stage 1	Monday	4.15 pm – 5 pm
Stage 1	Monday	5 pm – 5.45 pm
Stage 1	Tuesday	4.15 pm – 5 pm
Stage 2	Tuesday	5 pm – 5.45 pm
Stage 2	Wednesday	4.15 pm – 5 pm
Stage 2	Friday	7 pm – 7.45 pm
Stage 1	Friday	7.45 pm – 8 pm

One child is going to do Stage 1 lessons.
One child is going to do Stage 2 lessons.

Sally wants her children to go to gymnastics lessons on the same day.
They cannot go on a Tuesday.

(a) Which day should Sally choose?

(1)

Write your answer in the box below.

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Naveed teaches the Stage 1 class on Tuesday.

There are 24 children in this class.

15 of the children are going to take a test for the gold award.

Naveed says,

“ $\frac{3}{4}$ of the children are going to take a test for the gold award.”

(b) Is Naveed correct?

Show why you think this.

(3)

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

(Total for Question 1 is 4 marks)



2 Zaid is the manager of the activity centre.

He needs to decide if the activity centre will run more gymnastics lessons.

Zaid has this information about the number of children who came to gymnastics lessons in the last 7 weeks.

Number of children	115	127	138	140	122	135	133
---------------------------	-----	-----	-----	-----	-----	-----	-----

Zaid says

The centre will run more gymnastics lessons if the mean average number of children each week for the last 7 weeks is more than 125

(a) Will the activity centre run more gymnastics lessons?
Show why you think this.

(3)

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

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Zaid wants one member of staff on duty for every 15 people using the fitness suite.

There are 85 people using the fitness suite on Tuesday evening.

Zaid has 5 members of staff on duty.

(b) Does Zaid have enough members of staff on duty?

Show why you think this.

(2)

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

(Total for Question 2 is 5 marks)



- 3 Andi wants to organise a squash tournament.
She sees this poster at the activity centre.

Book a squash court
£5.50 for 1 hour

Andi needs to book 2 squash courts for 3 hours.
She thinks the total cost will be more than £30

- (a) Is the total cost more than £30?
Show a check of your working.

(4)

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

Write your check in the box below.



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The Leyland team will play the Buckshaw team in the squash tournament.
Kathy is the team captain for Leyland.
There are 3 players in each team.

Each player from Leyland plays one game against each player from Buckshaw.

Leyland

Andi
Jill
Terri

Buckshaw

Rachel
Dita
Lucy

Kathy wants to make a list of all the games in the tournament.
The first game is Andi against Rachel.

(b) Make a list of all the games for Kathy.

(3)

Write your list in the box below.

(Total for Question 3 is 7 marks)



SECTION B: Hotel

Answer all questions in this section.

Write your answers in the spaces provided.

- 4 Deenesh is the manager at a hotel.
He wants to organise the times his reception team will work between 1200 and 2000

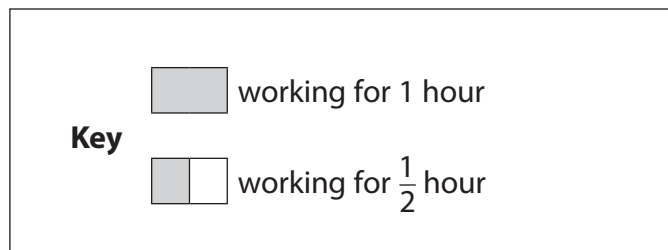
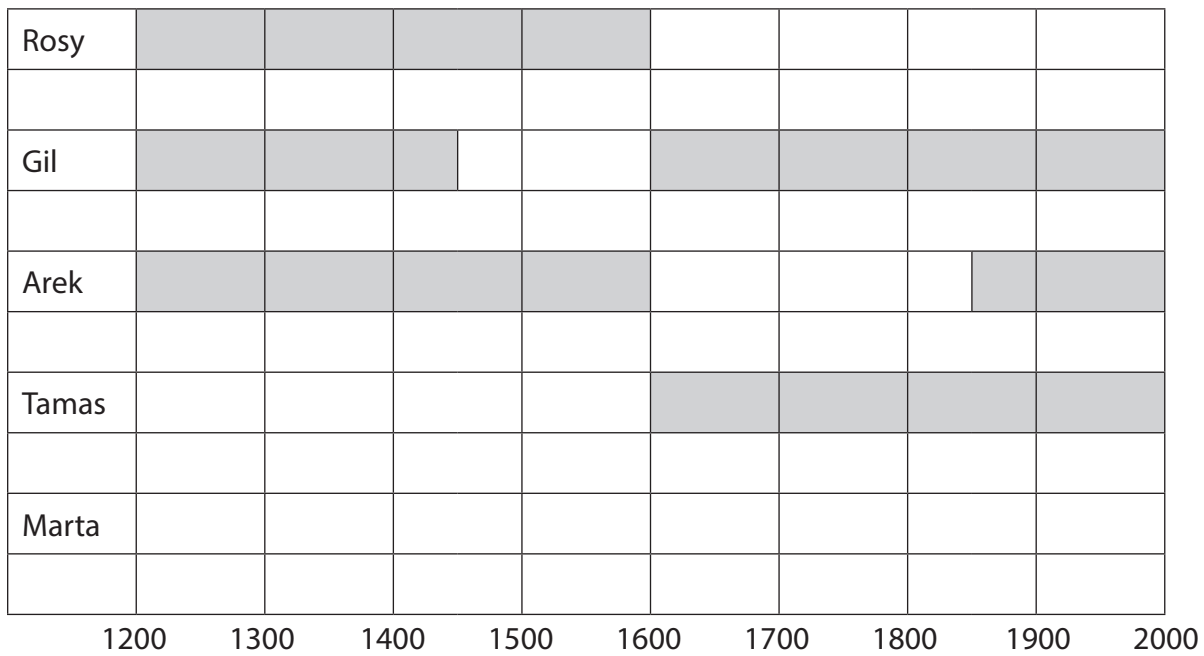
Rosy, Gil, Arek and Tamas all work on the reception team.
The diagram shows the times they work.

Deenesh needs 3 people working in the reception team at all times.
He is going to employ Marta.

Marta will work the extra hours so there are always 3 people working.

- (a) Shade the hours Marta will work on the diagram.

(2)



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Dev and Jane want to book a room at the hotel.

They want to stay for 4 nights in an executive double room.
They want to have dinner at the hotel on each of the 4 nights.

Dev finds this price list.

Prices per night	
Standard double room	£219.95
Executive double room	£275.95
Dinner £25 per person	

Dev thinks £1200 will be enough to pay for the executive double room and dinner for both of them for 4 nights.

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

(4)

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

(Total for Question 4 is 6 marks)



5 Paulo is a chef at the hotel.
He wants to make scones for afternoon tea.

Paulo is going to use these ingredients.

Scone recipe	
makes 8 scones	
80 g	butter
80 g	sugar
500 g	flour
2	eggs
250 ml	milk

Paulo wants to make 80 scones.
He has 3 litres of milk.

(a) Does Paulo have enough milk to make 80 scones?
Show why you think this.

(4)

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

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There is a special offer for afternoon tea at the hotel.

Afternoon tea
normal price £22
book early
15% discount

(b) Work out 15% of £22
Show a check of your working.

(3)

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

Large empty box for showing the working.

Write your check in the box below.



Large empty box for writing the check.

(Total for Question 5 is 7 marks)



- 6 Jimal is the manager of the restaurant.
There is a wedding party in the restaurant for a meal.

This is the menu for the meal.

<p style="text-align: center;">Starter</p> <p style="text-align: center;">smoked salmon or melon</p> <p style="text-align: center;">Main course</p> <p style="text-align: center;">chicken or fish or veggie chilli</p> <p style="text-align: center;">Dessert</p> <p style="text-align: center;">trifle or gateau</p>

There are 6 people at each table.
Each person will order a starter, a main course and a dessert.

Jimal wants a data collection sheet to record the menu choices.
He needs one sheet for each table.

Design a data collection sheet for Jimal to record the menu choices for each table of 6 people.

(3)

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Show your data collection sheet in the box below.



(Total for Question 6 is 3 marks)

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SECTION C: Home improvements

Answer all questions in this section.

Write your answers in the spaces provided.

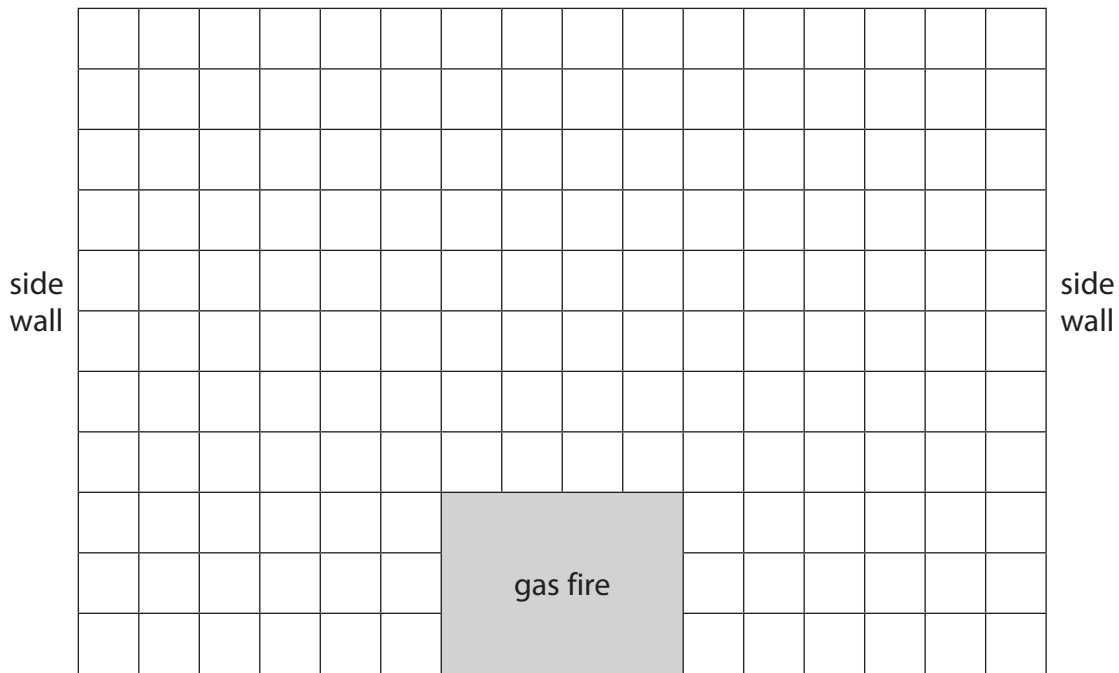
- 7 Justine wants to put a large mirror on a wall in the dining room.

The mirror is in the shape of a rectangle 200 cm by 100 cm.
It must be an equal distance from each of the side walls.

Justine draws a plan of the wall on a grid.

Draw the space for the mirror on the grid for Justine.

(2)



Key: 1 square on the grid is 25 cm by 25 cm on the wall

(Total for Question 7 is 2 marks)

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8 Justine wants to buy a new blind for her bedroom window.

The width of the window is 115 cm.
The height of the window is 126 cm.

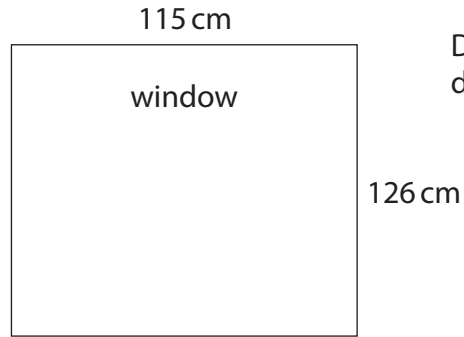


Diagram **not** accurately drawn

A store gives this information about blinds.

Blind name	Width (cm)	Height (cm)
Oregon	130	100
Michigan	90	180
Paris	120	140
Festival	110	100
Telstar	100	120
Sunshine	130	130

The blind must be

- wider than the width of the window
- longer than the height of the window.

(a) Which of these blinds could Justine buy?

(1)

Write your answer in the box below.



Justine wants to put skirting board around all the edges of the floor of her bedroom. The floor of the bedroom is rectangular 4 m by 3 m.

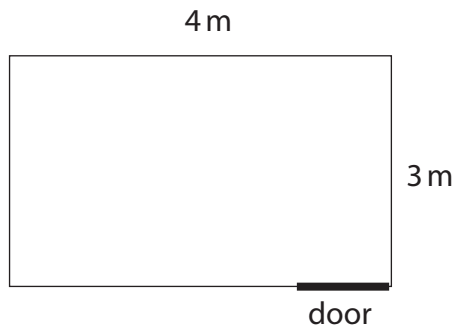


Diagram **not** accurately drawn

The skirting board must not go across the door. The width of the door is 1 m.

Skirting board is sold in lengths of 250 cm. Justine can cut and join the skirting board.

Justine thinks 5 lengths of skirting board is enough for the room.

(b) Will 5 lengths of skirting board be enough?
Show a check of your working.

(5)

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

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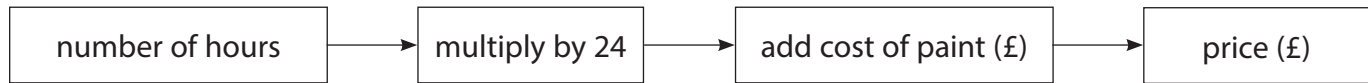
Write your check in the box below.



(Total for Question 8 is 6 marks)

- 9 Rory is a painter.
He is going to paint a wall for Justine.

Rory uses this rule to work out the price for this job.



Rory says

The job will take 3 hours.
The cost of the paint is £16

Work out the price for this job.

(3)

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

(Total for Question 9 is 3 marks)



10 Justine is going to cover the floor of a room with carpet tiles.
The diagram shows the dimensions of the floor and each tile.

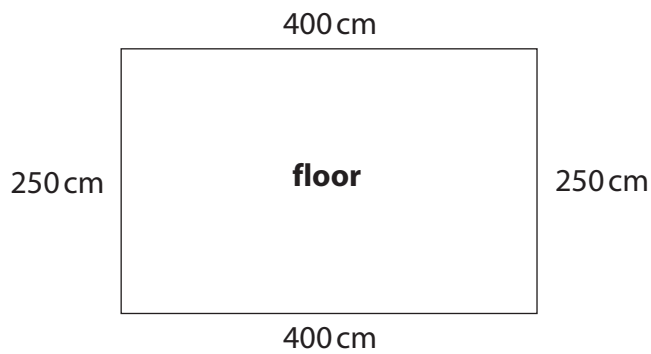
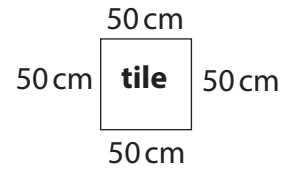


Diagram **not** accurately drawn



Carpet tiles are sold in packs.
There are 6 carpet tiles in each pack.

Justine needs to buy enough carpet tiles to cover the floor completely.

How many packs of carpet tiles does Justine need to buy?

(5)

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

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

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[Empty answer box for Question 10]

(Total for Question 10 is 5 marks)

TOTAL FOR PAPER IS 48 MARKS



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