

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



14 – 18 March 2016

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 as 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: Dinner party

Answer all questions in this section.

Write your answers in the spaces provided.

- 1 Felix is organising a dinner party.
He is going to make banana bread.
Felix has this list of ingredients.

Banana bread

Serves 4 people

140 g butter
140 g caster sugar
2 large eggs
140 g flour
1 tbs baking powder
2 ripe bananas

Felix wants to have enough banana bread for 8 people.
He has 300 g of flour.
He has enough of all the other ingredients.

Felix thinks he has enough flour to make banana bread for 8 people.

- (a) Is Felix correct?
Show why you think this.

(3)

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

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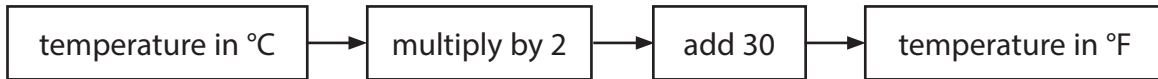
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Felix needs to cook the banana bread at 180°C .
He needs to change this temperature to $^{\circ}\text{F}$.

Felix uses this rule to change 180°C into $^{\circ}\text{F}$.



Felix works out that he needs to cook the banana bread at 400°F .

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

(3)

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



Felix takes 15 minutes to make the banana bread.
He then puts it in the oven.
The banana bread cooks in the oven for 40 minutes.

Felix starts making the banana bread at 1.50 pm.

(c) At what time will Felix need to take the banana bread out of the oven?

(3)

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

(Total for Question 1 is 9 marks)

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2 Felix is making a seating plan for the dinner party.

Ali, Ben, Dave, Kim, Pat, Rose, Liu and Felix will be at the dinner party.

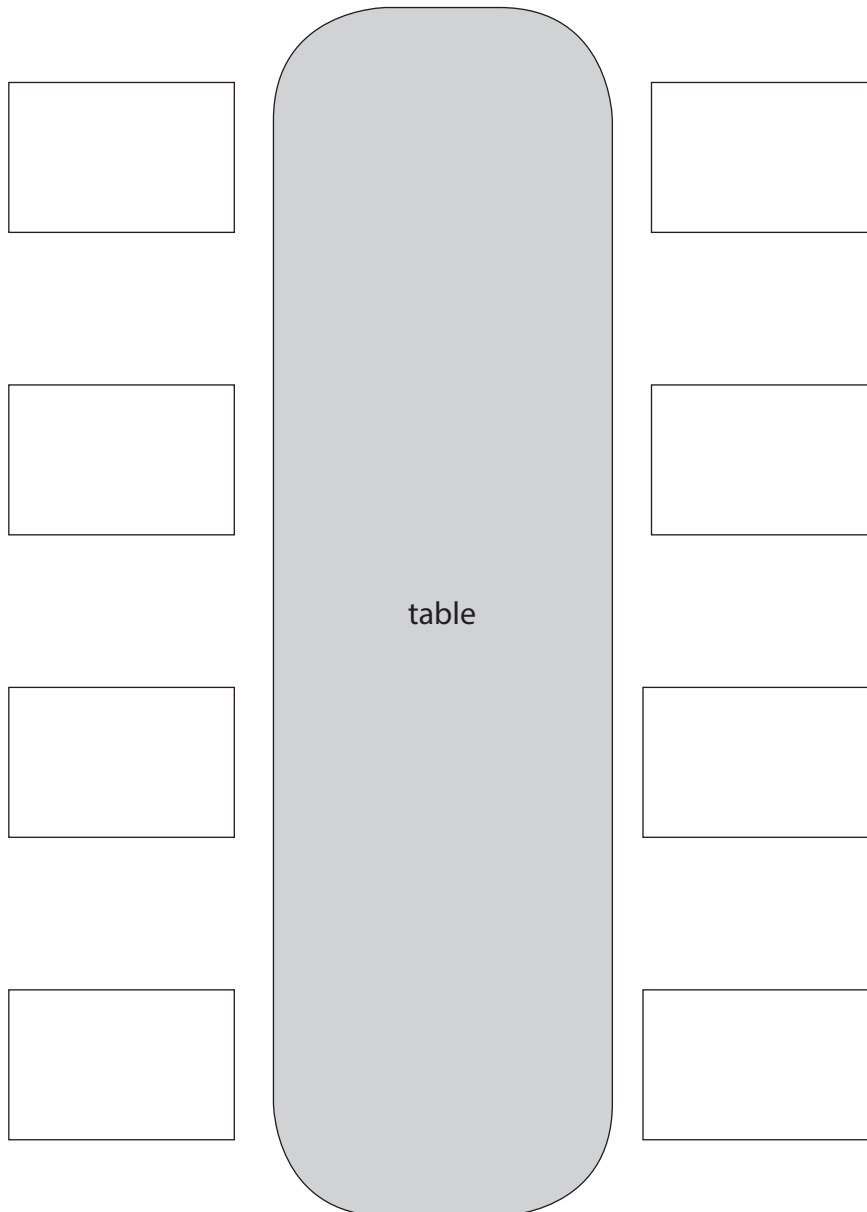
Felix knows that

- Rose wants to sit between Ben and Dave
- Ali and Pat need to sit together
- Kim wants to sit opposite Ali.

Complete the seating plan for Felix.

(2)

Write the names of the people on the seating plan.



(Total for Question 2 is 2 marks)



3 Felix wants to buy some lemonade for the dinner party.
He sees these offers in a shop.

Special offer today only
1 litre bottle just £1

Pack of 8 cans
Each can is 330 millilitres
2 packs for £5

Felix decides to buy 2 packs of 8 cans.
He thinks 2 packs of 8 cans is more lemonade than 5 bottles of 1 litre.

Is Felix correct?
Show a check of your working. (5)

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

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Use the box below to show your check.



(Total for Question 3 is 5 marks)

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SECTION B: Fashion show

Answer all questions in this section.

Write your answers in the spaces provided.

- 4 Rita is organising a fashion show in a hall. She needs to decide where to put the stage.

The space for the stage must be

- rectangular 4 m wide and 20 m long
- at least 8 m away from the back wall
- an equal distance from the left wall and from the right wall.

Rita draws a plan of the hall on a grid.

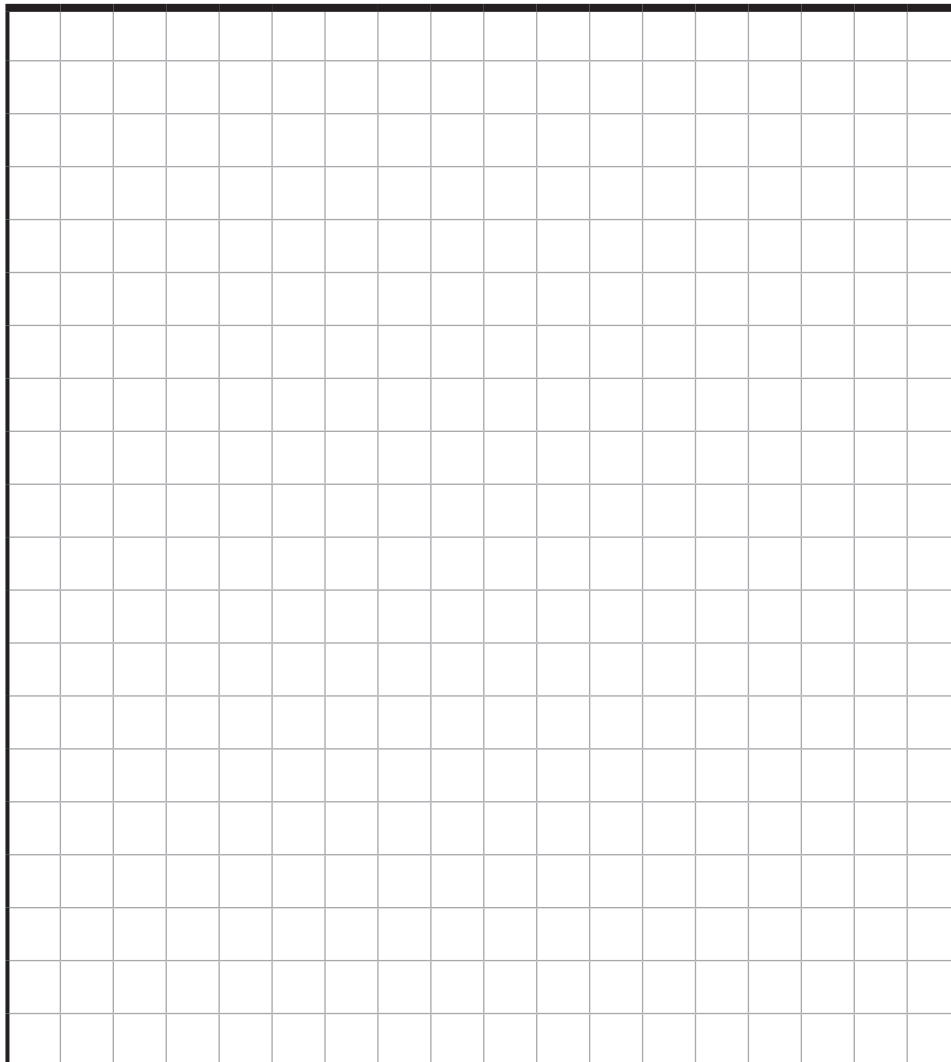
- (a) Draw the space for the stage on the grid for Rita. Remember to use the key.

(3)

back wall

left wall

right wall



Key: one square on the grid is 2 m by 2 m in the hall

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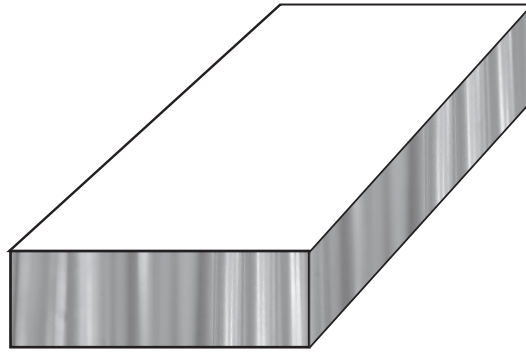
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Rita is going to put material around all the edges of the stage.

The top of the stage is rectangular 4 m by 20 m.



Rita has 9 pieces of material.

Each piece of material is 5 m long.

(b) Has Rita enough pieces of material?

(3)

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

Empty box for showing the solution.

(Total for Question 4 is 6 marks)



5 Rita needs a time plan for the fashion show.

There will be 6 designers at the show.
Each designer will give a presentation.

Rita makes these notes.

Designers

- Paul, Kathy, Satbir – 30 minutes each
- Lucy, Callum – 45 minutes each
- Jean – 1 hour to end the show

The show starts at 14.00 and must finish by 20.30

There must be a gap of at least 10 minutes between each presentation.

There must be a break of $1\frac{1}{2}$ hours between 16.00 and 18.00

The time plan must show the start and finish time of each presentation and the break.

Make a time plan for Rita.
Remember to check your time plan.

(4)

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Use the box below to show your time plan.



(Total for Question 5 is 4 marks)



6 Rita hires 12 models for the show from an agency.

She pays each model a fee of £130

The agency charges Rita 15% of the fee she pays each model.

Rita thinks the agency will charge her a total of less than £240

(a) Is Rita correct?
Show why you think this.

(3)

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

Empty box for showing the answer.

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Rita buys hair and make-up products for the show.

The total cost of the products she buys is £43

Rita gets a discount of $\frac{1}{5}$ of the total cost.

(b) What is $\frac{1}{5}$ of £43?

Show a check of your working.

(3)

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

Use the box below to show your check.



(Total for Question 6 is 6 marks)



SECTION C: Cleaning business

Answer all questions in this section.

Write your answers in the spaces provided.

- 7 Kyle has a cleaning business.
He is going to write a report about his business.

Kyle has this information about the number of customers in the last 5 years.

Year	1	2	3	4	5
Number of customers	653	764	698	845	923

Kyle needs to know the yearly average number of customers.

- (a) What is the yearly average number of customers?
Show a check of your working.

(4)

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

Use the box below for your check.



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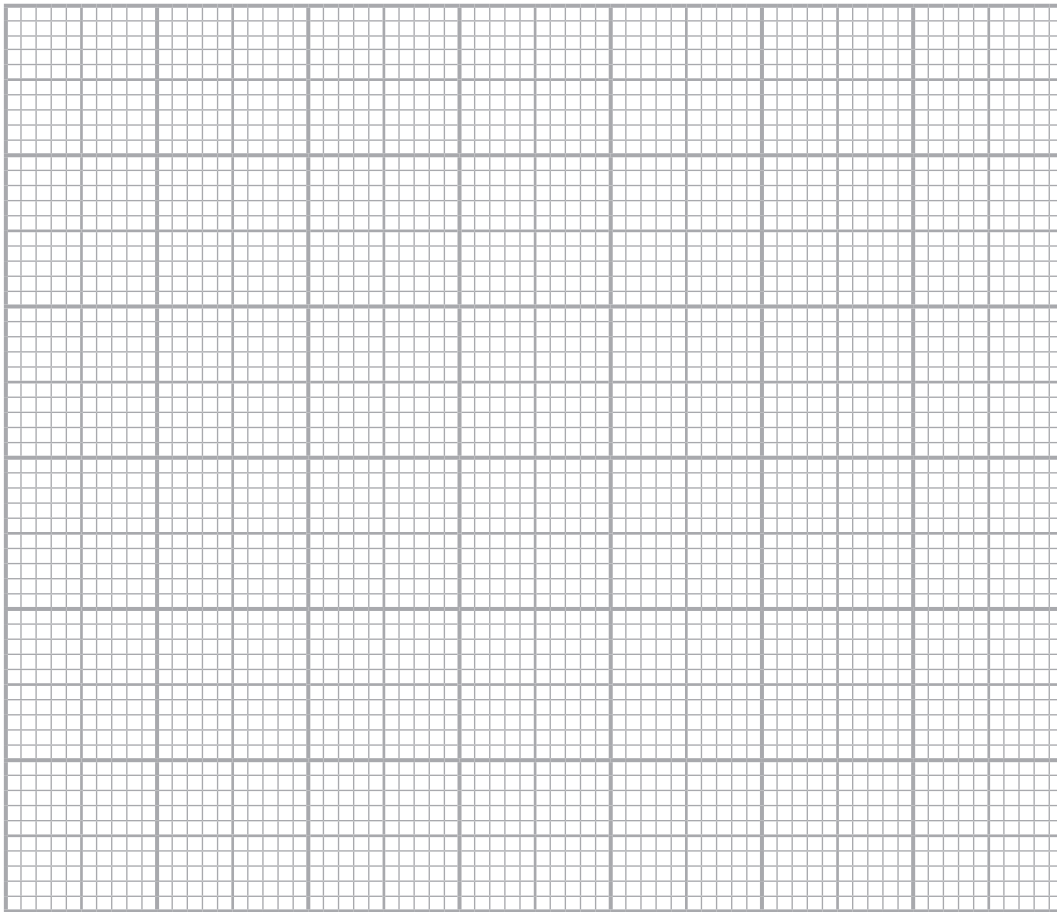
Kyle has information about the income his company got in the last four months.

Month	Jan	Feb	Mar	Apr
Income (£)	14 500	22 800	16 400	27 000

Kyle needs to present this information in his report.

(b) Draw a graph or chart for Kyle.

(3)



Kyle needs to make a comment about the company income in his report.

(c) Use the graph to make a comment about the company income.

(1)

Write your comment in the box below.

(Total for Question 7 is 8 marks)



- 8 Kyle needs to buy some floor cleaning fluid.
He finds these two offers.

Offer A

Pack of 6 bottles
each bottle 1 litre

Normal price £13 each pack
Now half price

Offer B

Pack of 8 bottles
each bottle 1 litre

Special price £9 each pack

Kyle wants to buy 24 bottles of the cleaning fluid.

He wants to spend as little as possible.

Which offer should Kyle choose?

(5)

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



(Total for Question 8 is 5 marks)

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9 Kyle wants to record information from each customer about their cleaner.

He wants to record

- the name of the customer
- the name of the cleaner
- if the customer thinks their cleaner is Excellent or Good or Satisfactory.

Kyle wants to record information from 5 customers on one record sheet.

Design a record sheet for Kyle.

(3)

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Show your record sheet in the box below.



(Total for Question 9 is 3 marks)

TOTAL FOR PAPER IS 48 MARKS



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