

Write your name here

Surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

Candidate Number

Mathematics

Level 1



Sample Assessment Material

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: Job centre

Answer all questions in this section.

Write your answers in the spaces provided.

- 1** Trudy works at a job centre.
She has to help 140 customers to find work.
Her target is to get 40% of her customers job ready.
Trudy now has 60 of her customers job ready.

(a) Has Trudy met her target?

(2)

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

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Trudy gives a customer information about a job.
The customer wants to compare the money from the job with his benefits.

Job
£7 each hour
35 hours each
week

The customer knows

- the money from his weekly benefits is £147.40
- he will need to buy a weekly bus pass to get to work.

The bus pass costs £16

Trudy has to show that the customer will have more money by taking the job.

(b) How much more money will the customer have by taking the job?

(3)

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

Empty box for showing the calculation.

(Total for Question 1 is 5 marks)



- 2 Brendan manages 5 people at the job centre.
He has this information about the number of customers they each help.

	Trudy	Nitesh	Leanne	Ali	Sandra
Number of customers	140	157	115	144	137

Brendan thinks the mean average number of customers is 135

- (a) Is Brendan correct?
Show why you think this. (3)

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

A large employer is going to create some new jobs.
The job centre will run CV workshops to help people apply for the jobs.

Brendan knows

- 350 people want to attend CV workshops
- up to 12 people can attend a CV workshop at one time
- each CV workshop will last 2 hours.

Brendan needs to calculate the total number of hours needed for the CV workshops.

- (b) How many hours of CV workshops are needed in total?
Show a check of your working. (4)

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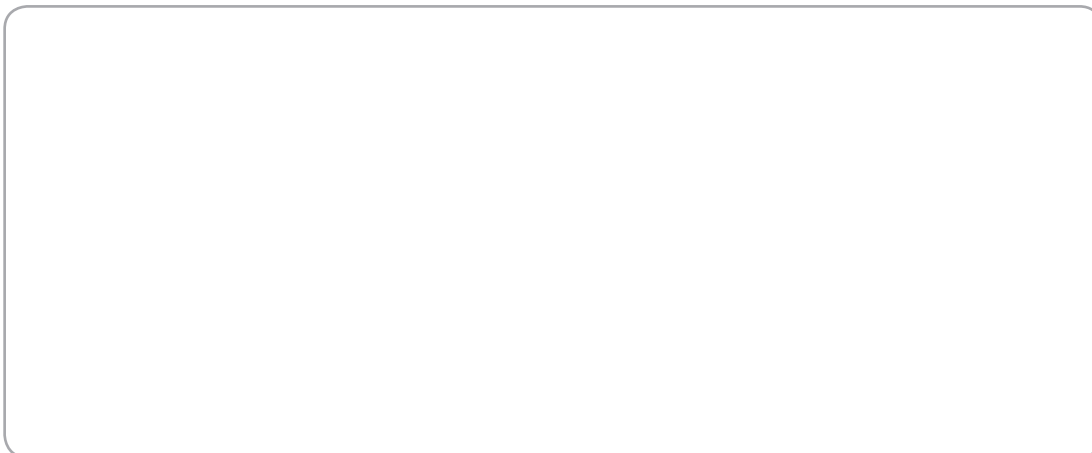
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Show your check in the box below.



(Total for Question 2 is 7 marks)



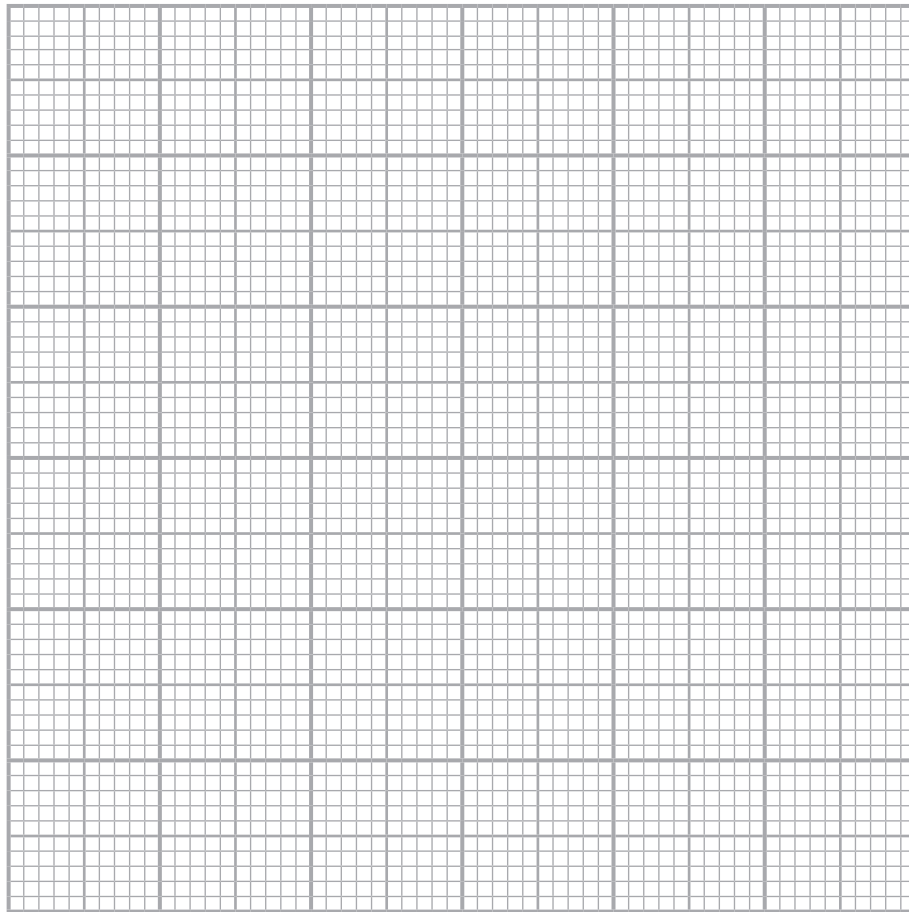
3 Brendan gets this information about unemployment in his area.

Unemployment in the local area				
2014	Jan – Mar	Apr – Jun	Jul – Sep	Oct – Dec
People (thousands)	9.9	9.2	6.4	6.3

Brendan wants to show this information at his team meeting.

(a) Draw a graph or chart for Brendan.

(3)



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Brendan needs to make one comment about this information at the team meeting.

(b) Choose the best comment for Brendan to use.

(1)

- A** Unemployment fell most from September to October 2014.
- B** Unemployment was highest in January to March in 2014.
- C** Unemployment nearly halved in 2014.
- D** 99 000 people were unemployed from January to March 2014.
- E** Unemployment increased in 2014.
- F** Unemployment fell in 2014.
- G** 31.2 thousand people were unemployed in total in 2014.

(Total for Question 3 is 4 marks)



SECTION B: Weekend visit

Answer all questions in this section.

Write your answers in the spaces provided.

- 4 Kim is going to look after her nephews and nieces for the weekend. She plans some activities for Saturday.

Kim wants to make play dough for the younger children. She finds these ingredients on the internet.

1 tub of play dough
250 grams of flour
36 ml of vegetable oil
65 grams of salt
A quarter of a pint of water
1 teaspoon of food dye

Kim wants to make 6 tubs of play dough.

She thinks she needs 390 g of salt and $1\frac{1}{2}$ pints of water.

- (a) Is Kim 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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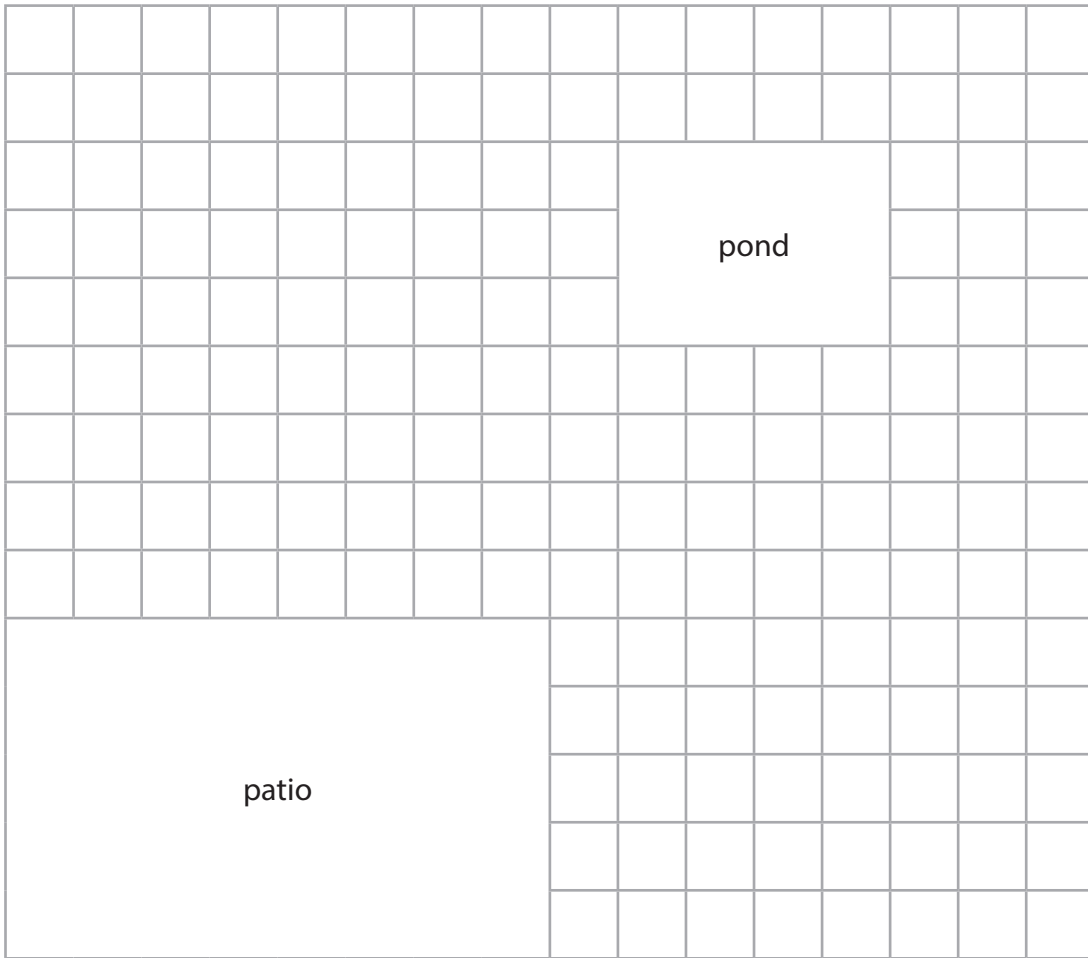


Kim wants to borrow a tent for the children to play in.
Her friend says

My tent needs a rectangular space.
It needs 3 m by 1.5 m.
You need a clear space of 50 cm all the way round for the ropes.

Kim is not going to put the tent on the patio.
She knows it must be at least 2 m away from the pond for safety.

Kim draws this plan of her garden on a grid.



Key 1 square on the grid is 50 cm by 50 cm in the garden

(b) Draw the space for the tent on the grid.

(3)

(Total for Question 4 is 6 marks)



- 5 Kim wants to plan what to watch on television. She is going to phone a restaurant to order a meal for delivery. Kim finds these programme times in the newspaper.

Channel A	Channel B	Channel C	Channel D
7.00 SERIES Ice Dancing 	7.00 NEWS and Weather 7.15 DOCUMENTARY Crocodiles in the River	7.00 GAME SHOW Fun Times 7.30 DRAMA Tales Unexpected	7.00 FILM Sinking Ship  TONIGHT'S CHOICE
8.00 GAME SHOW Win the Money 8.50 The Lottery 9.10 DRAMA Hospital Ward	8.15 FILM Murder and Mystery 10.00 Politics Show 11.00 NEWS and Weather	8.00 SERIES Star Factor 9.00 FILM The Boxing Man  10.30 DOCUMENTARY Madness in Marbella	9.20 NEWS and Weather 9.30 FILM Mick and Sally 11.00 SERIES Catch up Big Sister

Kim wants to watch

- Star Factor with the children
- the News and Weather
- a film when the children are in bed.

The children will go to bed at 9 pm.
She knows this takes 30 minutes.

Kim wants to eat the meal and clear up before Star Factor.
She plans to phone for the meal 1 hour and 45 minutes before Star Factor.

- (a) Make a time plan for Kim.
Remember to check your time plan.

(4)

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Use the box below for your time plan.

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Kim plays a card game with the children.
She gives Gareth a card.

Gareth has to guess whether his card is higher or lower than 5

Kim tells him

- there are 10 cards higher than 5
- there are 4 cards lower than 5

Gareth thinks he should guess higher than 5

(b) Is Gareth correct?
Explain why you think this.

(1)

Write your answer in the box below.

Kim is going to order the meal.

menu			
starters		main dishes	
prawn toast	£3.50	chicken sour	£4.90
spare ribs	£4.60	beef noodles	£4.30
spring rolls	£2.50	pork and ginger	£5.20
chicken wings	£3.30	foo yung	£4.70
crackers	£1.60	vegetable curry	£4.20
		lamb and peppers	£5.10
side orders		FREE soft drink with all orders over £35	
chips	£1.50		
rice	£1.40		
curry sauce	£1.30		
£1.20 per mile delivery charge			

Kim wants 2 different starters, 3 different main courses, 2 chips and 3 rice.

Kim wants to have the meal delivered.
She knows the distance is 5 miles.

Kim has £40 to spend on the meal and the delivery charge.

(c) Can Kim pay less than £40 for the meal?
Show a check of your working.

(5)

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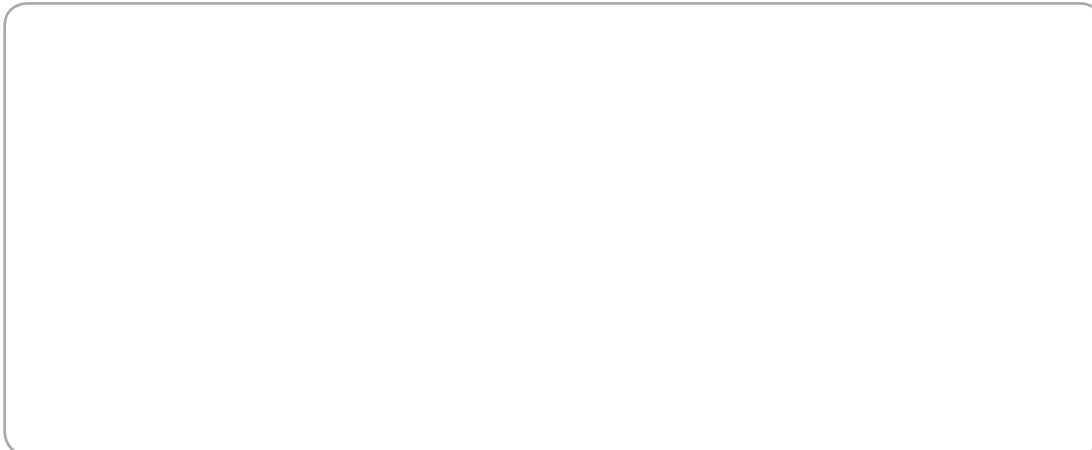
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Use the box below to show clearly how you get your answer.



Show your check in the box below.



(Total for Question 5 is 10 marks)



SECTION C: Thailand trip

Answer all questions in this section.

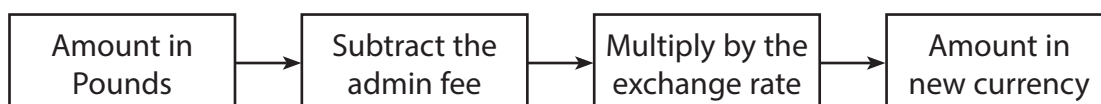
Write your answers in the spaces provided.

- 6 Joe and Harry are going on a trip to Thailand. They need to change £900 into Thai Bahts.

Joe sees this advert.

exchange rate
£1 = 49.56 Thai Baht
£2 admin fee on all transactions

He uses this rule to change currency.



Joe wants to know how many Thai Baht he will get for £900

- (a) How many Thai Baht will Joe get?
Show a check of your answer.

(4)

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

Show your check in the box below.



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Harry wants to know what time they will get to their hotel in Thailand.
He writes down this information.

Flight lands in Thailand at
11 am local time

$\frac{3}{4}$ hour at baggage reclaim

50 minutes transfer to hotel

Harry wants to be at the hotel for lunch by 12:30 local time.

(b) Will they get to the hotel by 12:30?

(3)

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

(Total for Question 6 is 7 marks)

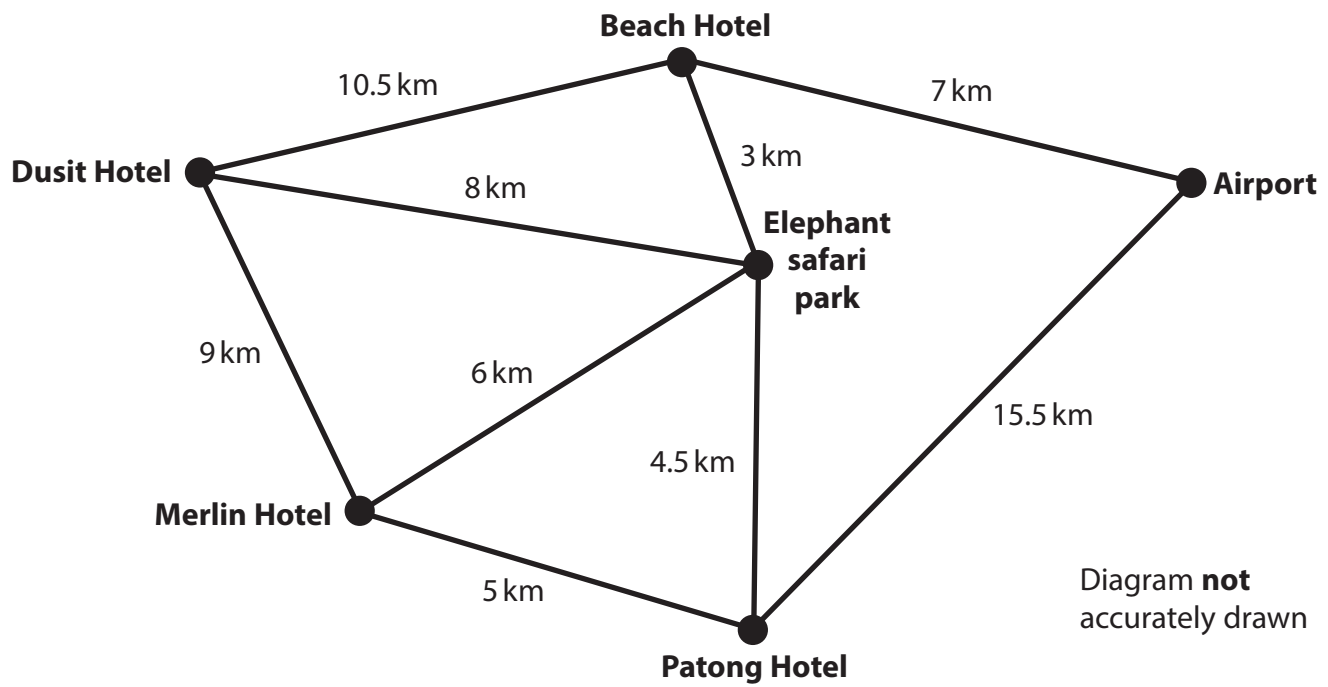


- 7 Chailai is a bus driver.
She collects tourists from hotels and takes them to the Thailand elephant safari park.

Chailai needs to plan the route for the bus on Tuesday.
She has to collect tourists from these hotels.

Merlin, Beach, Patong, Dusit.

The route must start and finish at the elephant safari park.
Chailai uses this map to help her find the shortest route.



Find the shortest route for Chailai.
What is the total distance of your route?

(3)



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



(Total for Question 7 is 3 marks)

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- 8 Harry and Joe visit the Thailand elephant safari park. There are rubber trees in the safari park.

Harry has to write a travel blog for a college project.

He decides to write about rubber production in his blog.

He finds this information.

Rubber production in Thailand (metric tons)			
Year	Used in Thailand	Exported	Total produced
2012	505 052	3 121 332	3 778 010
2013	520 628	3 664 941	4 170 428
2014	541 003	3 770 649	4 323 975

- (a) Write one sentence to compare rubber production in 2012 with rubber production in 2014 for Harry.

(1)

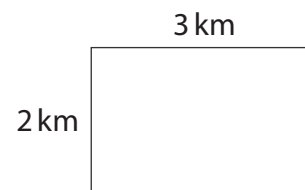
Write your answer in the box below.

A guide tells Harry the area for rubber trees in the sarfari park is rectangular 3 km by 2 km.

Harry finds this information on the internet.

170 rubber trees can grow in 1 acre.

There are 247 acres in 1 km².



Harry writes in his blog,

'There are more than a quarter of a million rubber trees in the safari park.'

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

(5)



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

(Total for Question 8 is 6 marks)

TOTAL FOR PAPER IS 48 MARKS



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