

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



13 – 17 March 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: Market stall

Answer all questions in this section.

Write your answers in the spaces provided.

- 1** Norman and Siran run a market stall.
They sell fruit and vegetables.

Siran has 7 trays of fruits.
She wants to display them on one shelf of the stall.

She has
pears, cherries, oranges, bananas, strawberries, apples and lemons.

- Siran must display them so that
- lemons are next to cherries
 - bananas are at one end of the display
 - pears are next to oranges
 - bananas are **not** next to strawberries.

(a) Write the names of the fruits in the boxes below for Siran.

(2)

You may use the boxes below to practise.

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Use the boxes below to show your final answer.

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Norman gives regular customers a 15% discount loyalty card.

Mrs Brown has a loyalty card.
She buys fruit costing £4.60

(b) Work out 15% of £4.60

(2)

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

(Total for Question 1 is 4 marks)



2 Norman sells the same type of potatoes in bags of different weights.

Potatoes	Potatoes
500 g	2 kg
48p	£1.65

Norman says the 500 g bags of potatoes give the best value for money.

- (a) Is Norman correct?
Show why you think this.
Show a check of your working. (5)

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

Write your check in the box below.



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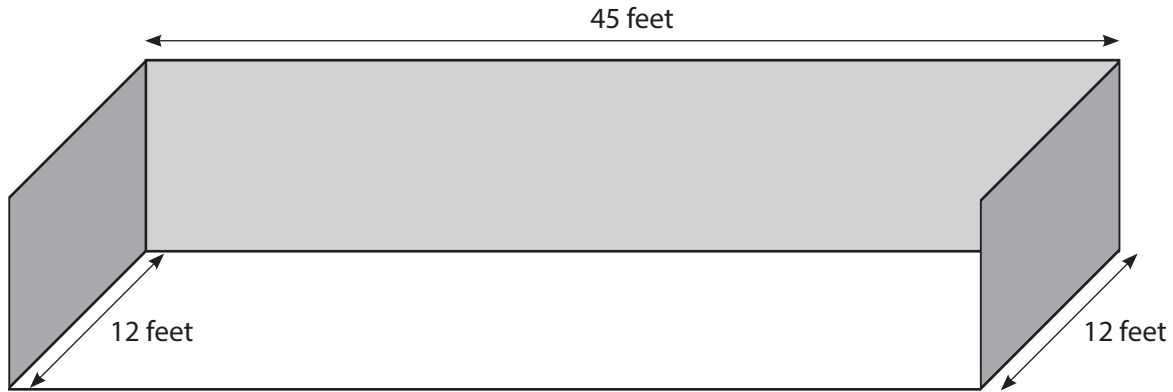
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Norman is going to put mirror strips around 3 sides of his display shelf.
His display shelf has 1 side of length 45 feet and 2 sides each of length 12 feet.

Diagram **not**
accurately drawn



The mirror strips are all of length 3 feet.

Norman buys 25 mirror strips.

(b) Does Norman have enough mirror strips to go around all 3 sides of the shelf?

(3)

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

(Total for Question 2 is 8 marks)



3 Norman sells 200 raffle tickets.
The prize for the raffle is a basket of fruit.

Mrs Brown buys 3 of these raffle tickets.

(a) What is the likelihood of Mrs Brown winning the raffle?

(1)

Tick a box to show your answer.

impossible	unlikely	even	likely	certain

Norman asks each customer if they would like a home delivery service.
If they do, he needs some information.

He needs to know what time of day they would want a home delivery.

- morning
- afternoon
- evening

How far they live from the market.

- under 5 miles
- 5 – 15 miles
- over 15 miles

Norman needs a data collection sheet by each till.

(b) Design a data collection sheet for Norman.

(3)

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Use the box below to show your data collection sheet.



(Total for Question 3 is 4 marks)



SECTION B: Wildlife centre

Answer all questions in this section.

Write your answers in the spaces provided.

- 4** Dean, Jan and their 2 children are visiting the wildlife centre. The children are 12 and 5 years old.

Dean sees these admission prices.

Admission prices

Adult £12.60

Child (age 4–16) £6

Group ticket (2 adults and 2 children) £32

Dean thinks it will be cheaper to buy a group ticket for the visit.

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

(4)

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

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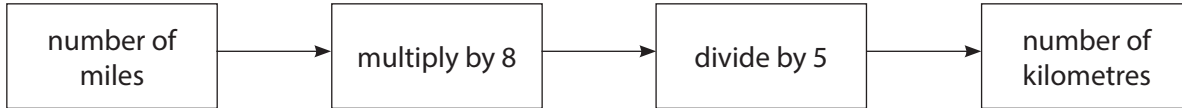
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There is a wildlife walk at the centre.
Dean sees this notice at the start of the walk.



Dean uses this rule to change miles to kilometres.



Dean thinks the walk is 4 kilometres long.

(b) Is the walk 4 kilometres long?
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.



(Total for Question 4 is 8 marks)



- 5 Jan wants to plan their visit.
She knows these activities are available.

Activity	Start time	Duration
flamingo talk	11.15	1 hour 15 mins
swan feeding	2.30	$\frac{1}{2}$ hour
lego brick animals workshop	12.00	1 hour
pond dipping	available all day	$\frac{1}{2}$ hour
den building	available all day	$\frac{1}{2}$ hour
bug hunting	available all day	$\frac{1}{2}$ hour
meet the reptiles	available all day	$\frac{1}{2}$ hour

Jan wants to

- arrive at 10.15
- go to the flamingo talk
- go to the swan feeding
- allow 30 minutes for lunch between 12.30 and 1.30
- go to 2 other activities
- be at the cafe by 4 o'clock.

She needs at least 10 minutes to travel between activities.

Write a plan for the visit for Jan.
You must show the start and finish times for each activity.

(5)

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Use the box below to show your plan.



(Total for Question 5 is 5 marks)

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- 6 Dean, Jan and the children visit the cafe.
They see the price list for the drinks.

<i>Tea</i>	<i>£1.30</i>
<i>Coffee</i>	<i>£1.50</i>
<i>Hot chocolate</i>	<i>£1.20</i>

Dean wants to order 4 hot chocolates.

He thinks he will have change from a £5 note.

- (a) Will Dean have any change from a £5 note?
Show why you think this.

(2)

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

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Dean and Jan are planning to visit the wildlife centre again next week.

They want to go when

- the temperature is above 20°C
- the chance of rain is less than 24%

They find this information on the internet.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Temperature (°C)	17	20	19	24	18	21	23
Chance of rain (%)	24	17	34	16	77	15	52

(b) Choose a day next week for their visit.

(1)

Write your choice of day in the box below.

(Total for Question 6 is 3 marks)



SECTION C: Dining room

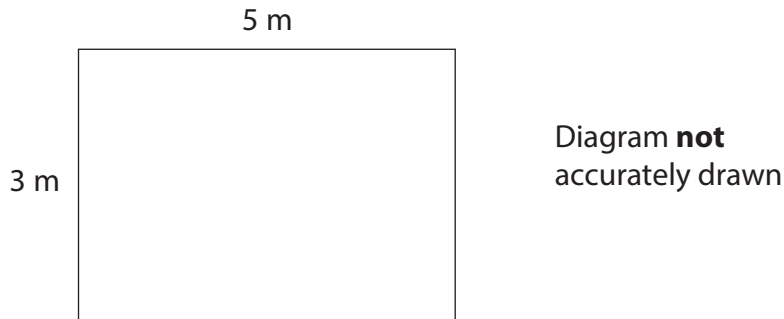
Answer all questions in this section.

Write your answers in the spaces provided.

7 Rashid is going to fit new flooring in his dining room.

He wants to cover the floor with carpet tiles.

The diagram shows a plan of the floor.



Rashid knows that

- there are 10 tiles in a pack
- 4 carpet tiles will cover 1 m^2 of the floor.

Rashid buys 7 packs of carpet tiles.

(a) Does Rashid have enough tiles to cover the floor?
Show why you think this.

(4)

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



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Rashid is going to paint the walls of his dining room light green.
He finds this information in a DIY shop.

To make light green paint

mix
1 litre of blue paint
with
3 litres of yellow paint

Rashid is going to use 2 litres of blue paint to make light green paint.

(b) How much yellow paint does Rashid need to use?
Show a check of your working.

(3)

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

Write your check in the box below.



(Total for Question 7 is 7 marks)

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8 Rashid is going to buy a table and a display unit. He wants to work out where to put them in his dining room.

The table needs

- a rectangular space 200 cm by 150 cm.

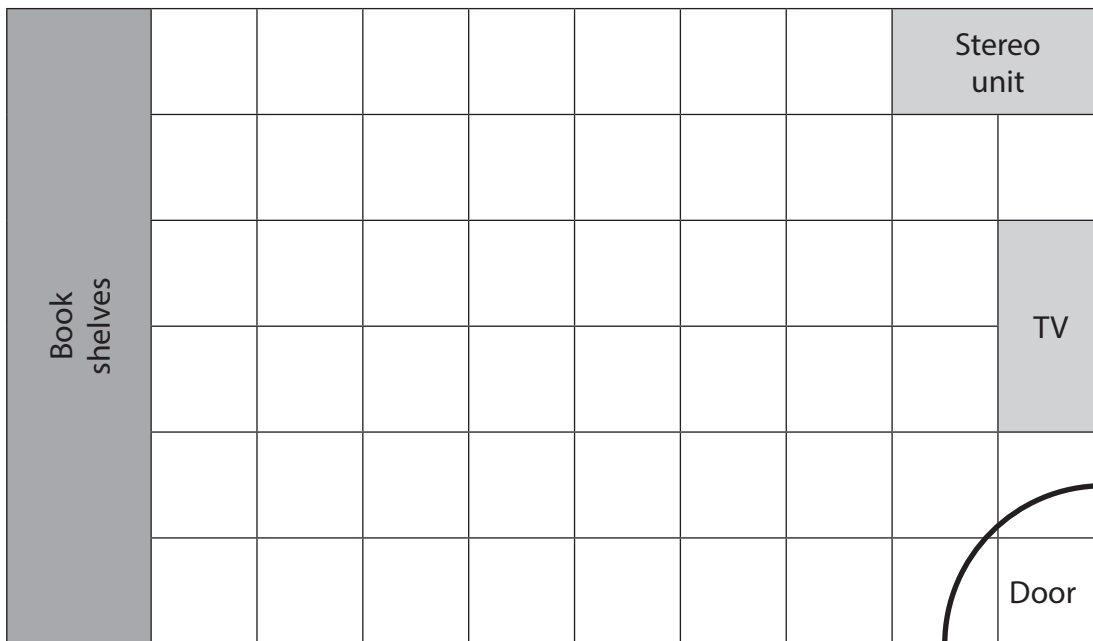
The display unit needs

- a rectangular space $1\frac{1}{2}$ m by $\frac{1}{2}$ m
- the longest side against a wall.

He draws a plan of the dining room on a grid.

Draw the table and display unit on the plan for Rashid.

(4)



Key: 1 square on the grid is 50 cm by 50 cm in the dining room

(Total for Question 8 is 4 marks)



- 9 Rashid sees the dining table and the display unit he wants in 3 different stores. Each store has a different offer for the table and the display unit.

House of Style
table and display unit
£95 deposit
and
12 monthly payments of £32
free delivery

Dining Outlet
buy today, pay $\frac{1}{3}$ normal price
table and display unit
normal price £1545
free delivery

Naveed's Dining Store
table £199
display unit £280
total delivery charge £20

Rashid has a budget of £500

Which stores can Rashid afford to buy the table and the display unit from?
Show why you think this.

(5)

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

(Total for Question 9 is 5 marks)

TOTAL FOR PAPER IS 48 MARKS



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