Write your name here

| Surname | | Other names | |

Pearson Edexcel
Functional Skills

Centre Number

Candidate Number

Mathematics
Level 1

15 – 19 June 2015
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.*
- **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 ▶

P43925A0120

PEARSON

SECTION A: Weekend in Manchester

Answer all questions in this section.

Write your answers in the spaces provided.

1 The Karim family are going to Manchester by train for the weekend.

Here is part of the train timetable.

Preston	1710	1747	1808	1845	1910	1945	1949
Buckshaw Parkway	1717		1815		1917		1959
Bolton	1735	1808	1835		1935		2025
Manchester	1756	1827	1856	1929	1957	2027	2047

They want to leave Buckshaw Parkway after 6 pm.
They want to arrive in Manchester before 8 pm.

(a)   What time should the Karim family get the train at Buckshaw Parkway?

(2)

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

There are 2 adults and 2 children in the Karim family.
They want to stay at a hotel for 3 nights.

They want to have dinner each night.

These are the costs at the hotel.

Family room bed and breakfast

£120 a night

Dinner

£9.50 per person

Mr Karim thinks £500 is enough to pay the hotel costs.

(b) Is the total cost at the hotel going to be less than £500?

(4)

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

(Total for Question 1 is 6 marks)

2 The family go by taxi to a football match on Saturday.

Here is the rule to work out the cost of the taxi fare.

Cost (£) = number of miles × 1.85 then add 2.30

The distance from the hotel to the football stadium is 3 miles.

Mr Karim thinks £8 is enough to pay the taxi fare.

(a) Is Mr Karim correct?
Show why you think this. **(3)**

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

Mrs Karim knows the football stadium has a seating capacity of 60 000 people.

The big screen shows there are 40 000 people watching the match.

Mrs Karim says

The stadium is $\frac{3}{4}$ full.

(b) Is Mrs Karim correct?

(2)

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

(Total for Question 2 is 5 marks)

3 The family plan to go to an indoor snow centre on Sunday.

The table shows the activities the family can choose from.

Activity	Boot Camp	Luge Slide	Snow Fun	Sledging	Climbing	Snowplay
Duration	1 hour	45 minutes	50 minutes	40 minutes	1 hour 30 minutes	20 minutes
Start times	16:30	9:30 10:30 11:30 12:30 13:30 14:30 15:30 16:30	12:00 14:00 16:00	13:30 15:30 17:30	12:00 14:00 17:30	9:00 9:30 10:30 11:00 11:30 12:00 12:30

- They will arrive at 10:00 and want to leave by 18:00

- They want to go to the Boot Camp and 3 other activities.

- They need at least 30 minutes before each activity to get ready.

- They want to have an hour for lunch between 12:00 and 14:00

Mrs Karim wants to make a time plan for the day.

Make a time plan for Mrs Karim.
You must show the start time and finish time for each activity. **(5)**

Write your time plan in the box below.
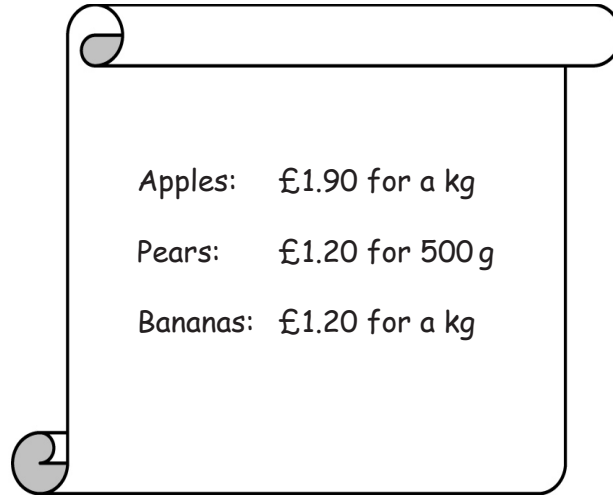
(Total for Question 3 is 5 marks)

SECTION B: Selling fruit

Answer all questions in this section.

Write your answers in the spaces provided.

4 Ellen sells fruit from her market stall and on a marketplace website.
The poster shows some of the offers on the market stall.

Apples: £1.90 for a kg

Pears: £1.20 for 500 g

Bananas: £1.20 for a kg

Jack wants to buy 1 kg of apples and 1 kg of pears.

(a) How much will Jack pay?

(3)

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

Ellen packs apples into bags for the stall.
She has 400 apples.

Ellen packs 20 bags with 6 apples.
She wants to pack the rest of the apples in bags of 4

(b) How many more bags does Ellen need for all the apples?

(4)

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

(Total for Question 4 is 7 marks)

5 Ellen sells baskets of fruit on the marketplace website.

She knows she needs to sell a weekly average of more than 30 baskets.

The table shows the number of baskets she sells each week for 6 weeks.

Week	week 1	week 2	week 3	week 4	week 5	week 6
Baskets sold	33	36	24	16	35	30

(a) Does Ellen sell a weekly average of more than 30 baskets?

(3)

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

The marketplace website charges Ellen 15% of her total sales.

Last week Ellen's total sales were £640

(b) How much did the website charge Ellen last week?

(2)

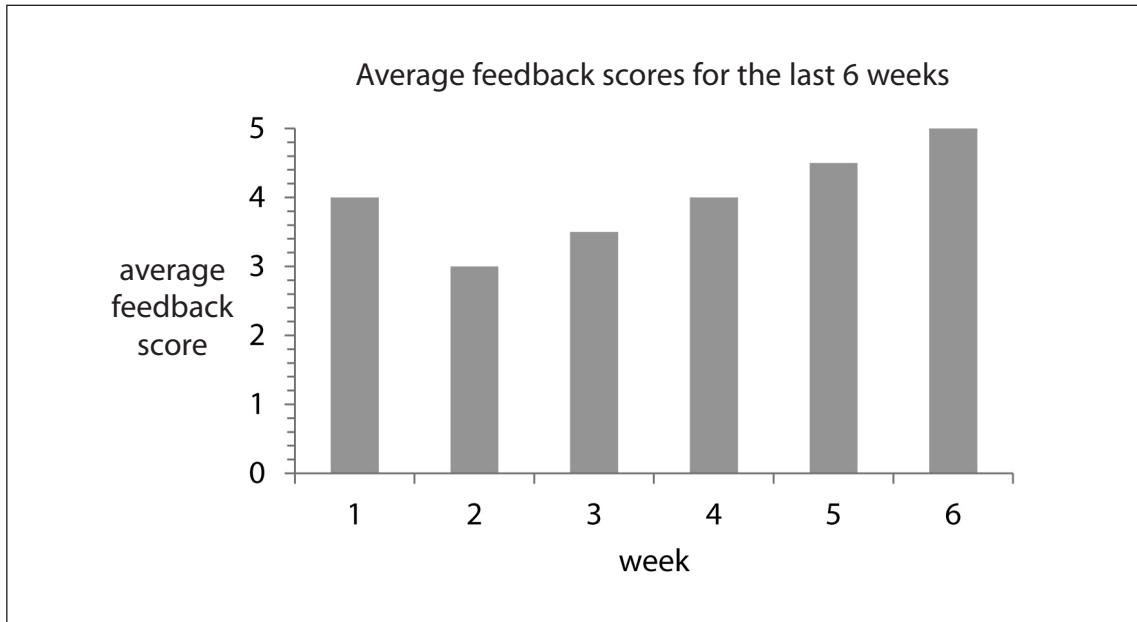Use the box below to show clearly how you get your answer.

(Total for Question 5 is 5 marks)

6 Customers can give a feedback score about their baskets of fruit.
The score can be 5 (very good), 4 (good), 3 (satisfactory), 2 (poor), 1 (very poor).

The website sends Ellen this graph to show her average feedback scores
for the last 6 weeks.

Average feedback scores for the last 6 weeks

average feedback score	(bar chart: week 1 = 4, week 2 = 3, week 3 = 3.5, week 4 = 4, week 5 = 4.5, week 6 = 5)

week

Ellen wants to write about her feedback scores for an advert.

(a) Write a comment for Ellen.

(1)

Write your comment in the box below.

Ellen sells two types of baskets of fruit.

Luxury	Special occasions
weight 5 kg	weight 4 kg
cost £30	cost £22

A customer says

The Luxury basket is cheaper for each kg of fruit.

(b) Is the customer correct?

(3)

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

(Total for Question 6 is 4 marks)

Turn over ▶

Answer all questions in this section.

Write your answers in the spaces provided.

7 Mike wants to put a playhouse and a trampoline in his garden.

The space for the playhouse needs
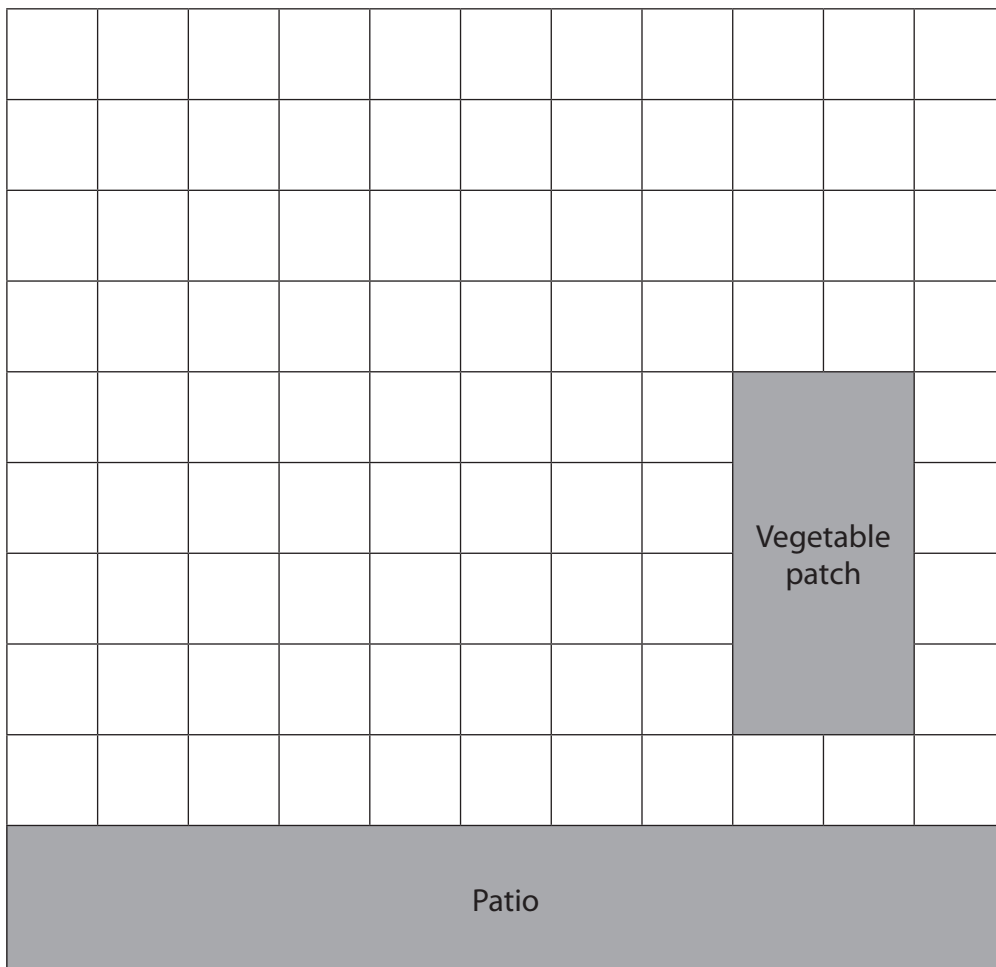
- to be rectangular 4 m by 3 m

- to be in a corner.

The space for the trampoline needs

- to be square with sides 3 m

- to have a clear space around it of at least 2 m on all sides.

Mike draws a plan of the garden on a grid.

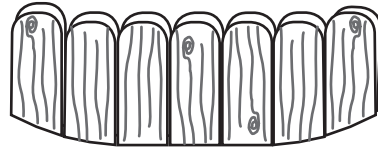(a) Draw the space for the playhouse and the space for the trampoline on the grid. **(4)**

Vegetable patch

Patio

Key: 1 square on the grid is 1 m by 1 m in the garden

Mike wants to put edging along the sides of the vegetable patch.

He can buy the edging in packs.
Each pack has 180 cm of edging.

The vegetable patch is 4 m long and 2 m wide.

(b) How many packs of edging does Mike need to buy?

(4)

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

(Total for Question 7 is 8 marks)

Turn over ▶

8 Mike sees these offers for the playhouse he wants to buy.

He wants the playhouse to have a 10 year guarantee.
He also wants delivery and fitting.

Playhouses.com

£50 deposit
and
12 payments of £99.95

Included:
10 year guarantee
Delivery
Free fitting

MJ playhouses

Normal price   £1650

Now half price

Delivery included

Extras:
10 year guarantee £145
Fitting £200

Mike wants to pay the cheapest total price.

Which offer should Mike choose?

(5)

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

(Total for Question 8 is 5 marks)

9 Mike is going to make compost for the vegetable patch.

He finds this information

> For the best compost use
>
> 1 bag of grass clippings to every 3 bags of leaves.

Mike has 12 bags of leaves.

He thinks he should use 5 bags of grass clippings with the 12 bags of leaves.

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

(2)

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

(b) Show how you check your calculation.

(1)

Write your check in the box below.

(Total for Question 9 is 3 marks)

TOTAL FOR PAPER IS 48 MARKS

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