Write your name here

Surname		Other names	

Pearson Edexcel Functional Skills

Centre Number

Candidate Number

Mathematics

Level 1

9 – 13 November 2015
Time: 1 hour 30 minutes

Paper Reference
FSM01/01

Total Marks

You must have:
Pen, calculator, HB pencil, eraser, ruler graduated in cm and mm, protractor, compasses.

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 ▶

P 4 9 9 3 3 A 0 1 2 0

PEARSON

Answer all questions in this section.

Write your answers in the spaces provided.

1 Tom is going on holiday for 14 days.

He has some cats.
He needs to work out how much food to leave for the cats.

A box of cat food contains 12 packets.
The cats eat 5 packets of cat food in total each day.

(a) How many boxes of cat food does Tom need to leave for 14 days?

(4)

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

Tom also leaves a bag of food for the dog.

He knows the dog eats 350 g of food each day.

The bag contains 5 kg of dog food.

(b) Is 5 kg of dog food enough for 14 days?

(3)

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

Bethany is going to look after the pets for Tom when he is on holiday.

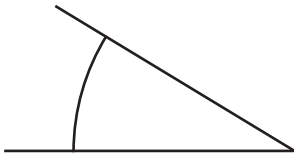Tom leaves this note for Bethany.

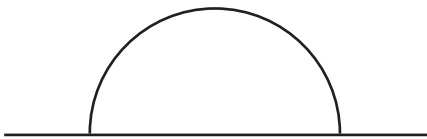To open the cat flap turn the lock 180°

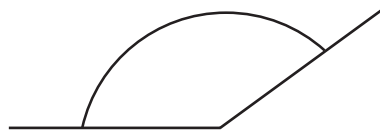(c) Which diagram shows 180°?

(1)

Tick (✓) the correct diagram below.

A   (   )

B   (   )

C   (   )

D   (   )

(Total for Question 1 is 8 marks)

2 Bethany needs to travel to Tom's house by train.
She goes from Milton Keynes to Huddersfield.

Here is the train timetable.

	Milton Keynes	Milton Keynes	Milton Keynes
Depart	10:50	11:50	12:50
	Huddersfield	Huddersfield	Huddersfield
Arrive	13:12	14:12	15:12

Bethany needs to get to Tom's house by 3.30 pm.

She has to get the bus from Huddersfield station to Tom's house.
The bus takes 40 minutes.

(a) What time should Bethany get the train from Milton Keynes?

(3)

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

Bethany needs to travel to Tom's house by train.

The price of her ticket is £103.80

Bethany has a railcard.

She uses the railcard to get $\frac{1}{3}$ off the price of her ticket.

(b) How much is $\frac{1}{3}$ of £103.80?
Show a check of your working.

(3)

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

Show your check in the box below.

☑

Bethany buys lunch on the train.
She sees this meal deal.

> Buy any sandwich,
> packet of crisps and drink
> for £3.99

Bethany chooses these items.

Chicken sandwich	£2.55
Salt and vinegar crisps	75p
Orange juice	£1.20

Bethany thinks she will save at least 60p if she buys the meal deal.

(c) Is Bethany correct?
Show why you think this.

(2)

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

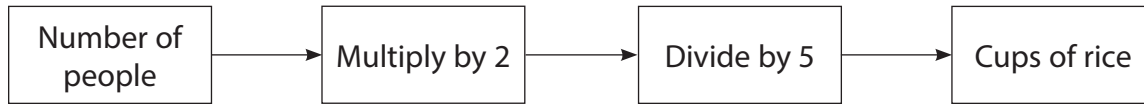**(Total for Question 2 is 8 marks)**

Turn over ▶

Answer all questions in this section.

Write your answers in the spaces provided.

3 Magda works at a charity for homeless people.

She needs to make lunch for 15 people.

Magda knows this rule to find the amount of rice she needs to cook.

| Number of people | → | Multiply by 2 | → | Divide by 5 | → | Cups of rice |

Magda thinks she needs to cook 10 cups of rice for 15 people.

> Is Magda correct?
> Show why you think this.
> 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.

☑

(Total for Question 3 is 4 marks)

P 4 9 9 3 3 A 0 8 2 0

4 Magda thinks that not enough people come for a cooked lunch on Saturdays.

She records the number of people having cooked lunch on Saturdays for the next 5 weeks.

Week	1	2	3	4	5
Number of people	12	6	8	10	11

Magda works out the mean average number of people having cooked lunch on Saturday over the 5 weeks.

She thinks she should stop providing cooked lunch if the mean is less than 10

Is the mean average number of people less than 10?

(3)

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

(Total for Question 4 is 3 marks)

5 Magda wants to start a fund raising campaign.
She is going to make a poster.

Magda wants to display a graph or chart about rough sleepers.
She finds information about the number of rough sleepers in England.
The table shows the figures rounded to the nearest hundred.

Year	2010	2011	2012	2013	2014
Number of rough sleepers	1,800	2,200	2,300	2,400	2,700

Source: DCLG, Rough sleeping Statistics

(a) Draw a graph or chart for Magda.

(3)

Magda thinks the number of rough sleepers will increase in 2015.

(b) Explain why Magda could be correct.

(1)

Write your answer in the box below.
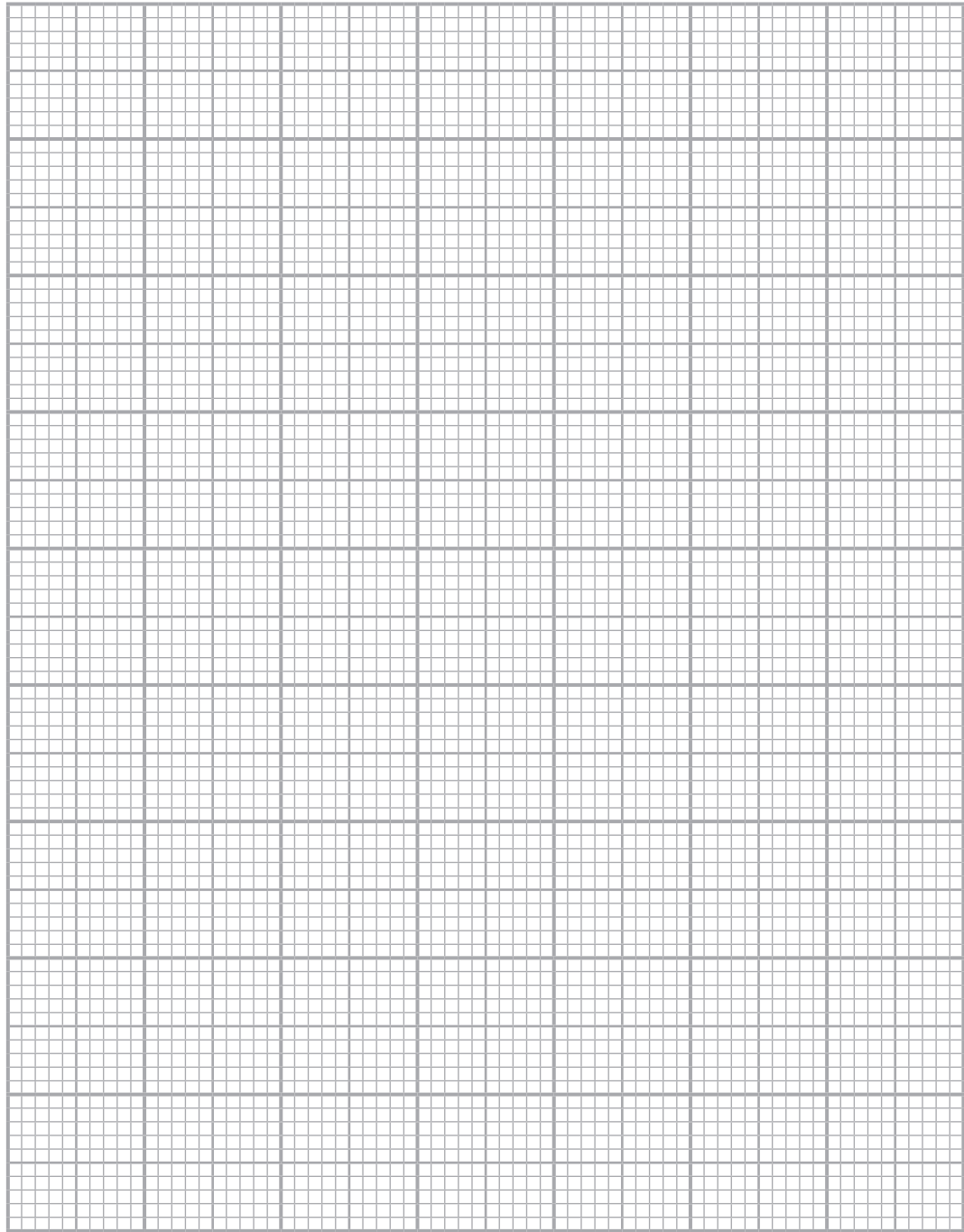
(Total for Question 5 is 4 marks)

6 Magda wants to buy some stacking chairs for a shelter for homeless people.

She sees these two offers.

Furniture4U
Stacking chairs

4 chairs in a pack

£84 for each pack

Buy 2 packs

get a 3rd pack for half price

Tableandchairs.com
Stacking chairs

6 chairs in a pack

£94 for each pack

Magda wants to buy at least 12 chairs.
She wants to spend as little money as possible.

Magda thinks she will spend less money if she orders the chairs from Furniture4U.

Is Magda correct?
Show why you think this. **(5)**

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

(Total for Question 6 is 5 marks)

SECTION C: Sports day

Answer all questions in this section.
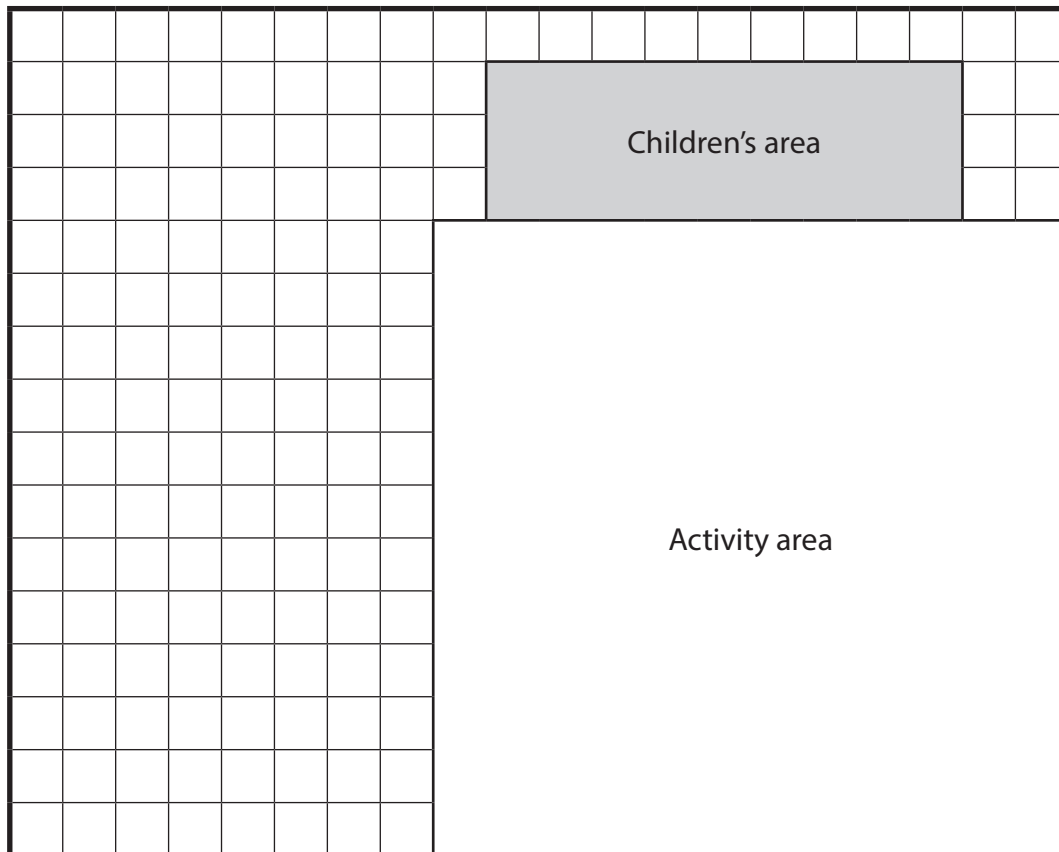
Write your answers in the spaces provided.

7 Steve organises a sports day for children on a field in his village.

He needs to allow a space for the parents to watch the sports.

The space will be

- a rectangle 40 m by 10 m

- alongside the activity area.

Steve draws this plan of the field.

Key: 1 square on the grid is 5 m by 5 m on the field

(a) Draw the space for the parents on the grid.

(2)

There is a tent for refreshments.
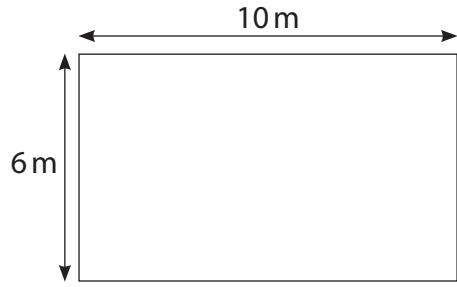It is rectangular 10 m by 6 m.

10 m

6 m

Diagram **not**
accurately drawn

Steve wants to put bunting around all 4 sides of the tent.
He has 40 m of bunting.

(b) Has Steve got enough bunting?
     Show a check of your answer.

(3)

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

Show your check in the box below.

☑

There is a relay race for parents at the sports day.

The running track is 50 metres long.

One of the parents asks Steve how many yards this is.

Steve knows that 110 yards is about 100 metres.

(c) What is the length of the running track in yards?

(2)

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

(Total for Question 7 is 7 marks)

8 Steve makes some orange drink for the sports day.

He mixes 1 part of cordial to 5 parts of water.
He needs to make 24 litres of orange drink.

Steve thinks he needs to use 6 litres of cordial.

Is Steve correct?
Show why you think this. **(3)**

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

(Total for Question 8 is 3 marks)

Turn over ▶

9 At the sports day the children are in 3 teams.

The teams are called Blue, Red and Green.

The table shows how many points children win for their team.

Result	Points
1st	10
2nd	5
3rd	2

Each race has more than 1 child from each team.

Here are the results.

Obstacle race

1st Blue   2nd Blue   3rd Red

Sack race

1st Red   2nd Blue   3rd Red

Egg and spoon race

1st Red   2nd Green   3rd Red

50 m race

1st Green   2nd Blue   3rd Blue

Steve needs a record sheet to work out the total points for each team.

Design and complete a record sheet for Steve.
Remember to check your answer.

(6)

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

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