| Write your name here | | |
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| Surname | Other nam | es |
| Pearson Edexcel Functional Skills | Centre Number | Candidate Number |
| Mathema Level 1 | tics | |
| 5 – 9 January 2015 | | Paper Reference |
| Time: 1 hour 30 minutes | | FSM01/01 |
| You must have: Pen, calculator, HB pencil, erase | er, ruler graduated in cm ar | nd mm, |

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 **black** ink or 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

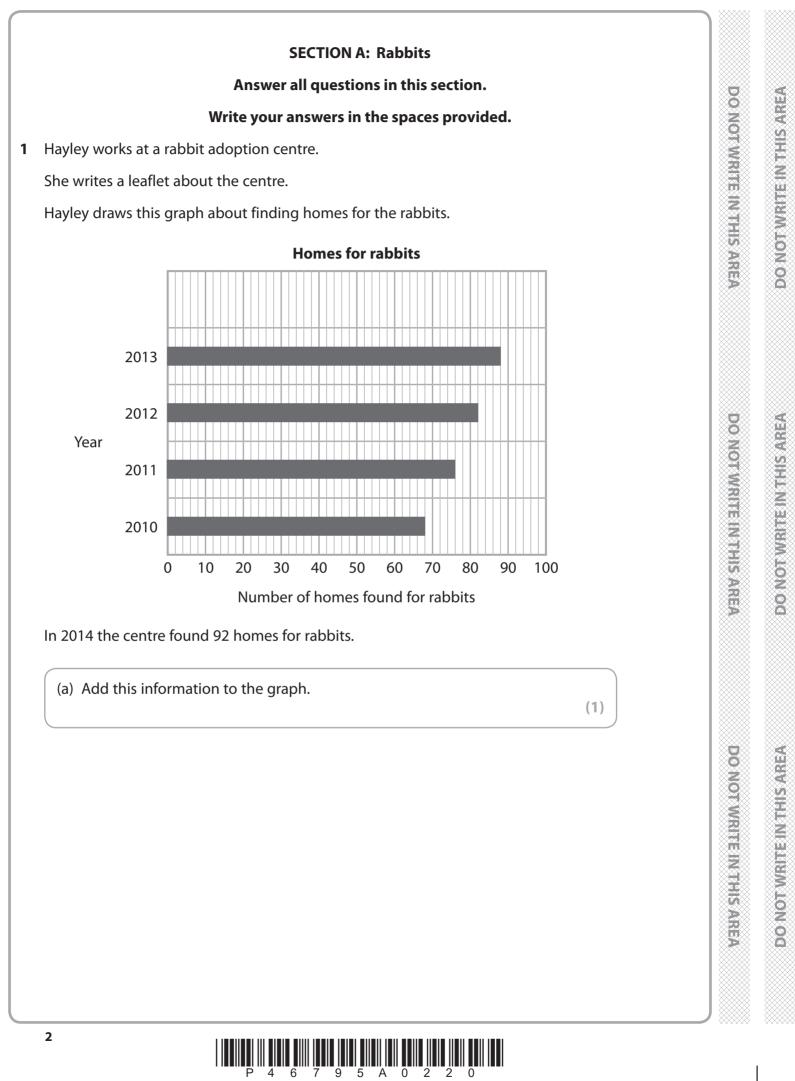
- Read each question carefully before you start to answer it.
- Keep an eye on the time.











Hayley wants to know how many homes were found for rabbits from 2010 to 2014.

(b) Use the graph to work out the total number of homes found in these 5 years.

(3)

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

Hayley wants to write a comment about the graph to use in the leaflet.

(c) Write a comment about how the number of homes found for rabbits has changed.

(1)

Write your comment in the box below.

Hayley wants a sheet to collect information about the rabbits that need new homes.

She wants to record if each rabbit is

- male or female
- a large breed, a medium breed or a small breed.

(d) Design a data collection sheet for Hayley.

(3)

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Use the box below for your data collection sheet.

(Total for Question 1 is 8 marks)

P 4 6 7 9 5 A 0 4 2 0

2 Bobby adopts a rabbit.

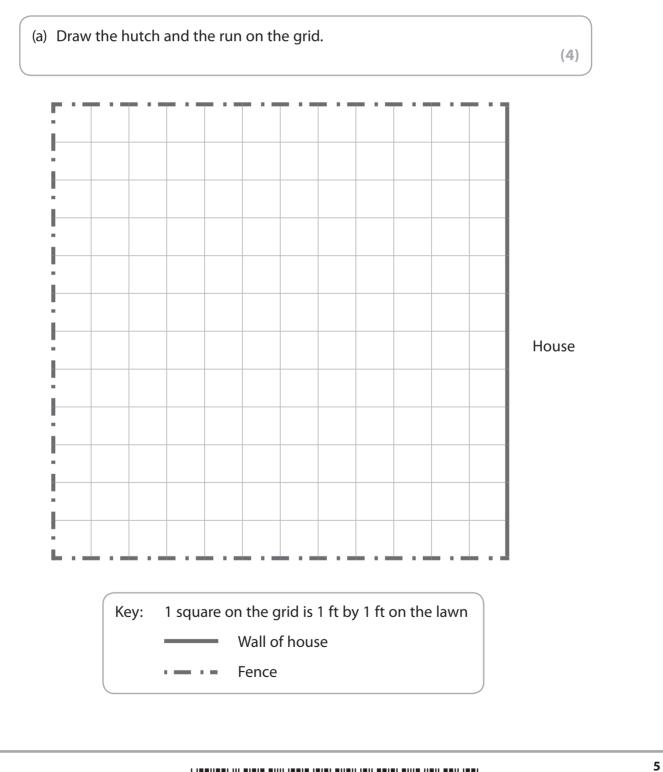
The rabbit needs to live in a hutch and have a run to play in. Bobby is going to put the hutch and the run on his lawn.

Bobby finds this information.

- The hutch needs a rectangular space 6 ft by 2 ft.
- The run needs a rectangular space 8 ft by 4 ft.
- The space for the run must be attached to the space for the hutch.
- The hutch and the run must be at least 2 ft away from any fence.

He wants to put the hutch against the wall of the house.

Bobby draws a plan of his lawn on a grid.





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Bobby buys 3 kg of rabbit food.

Here is the label on the rabbit food.

Feed your rabbit 25 g for each kg of its body weight each day.

The rabbit has a body weight of 2 kg.

Bobby thinks the 3 kg of food will last more than 35 days.

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

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

(4)

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| VIEW CONCUMPTION OF C | | |
| VERT SIHT NI ETIAN TON OU DO NOT MULTE IN THIS VERY | (Total for Question 2 is | 8 marks) |
| | | 8 marks) Turn |

SECTION B: A trip to Lenster

Answer all questions in this section.

Write your answers in the spaces provided.

3 Dave and Mia want to take their 3 children on a day trip to Lenster. They need to buy train tickets for all the family.

Mia sees this advert.

Mid England Train Company

Group Saver Offer

For a group of 4 people

Any mix of adults and children

Buy a standard ticket at $\frac{1}{2}$ price for each of 4 people.

Extra child tickets £1 each.

Mia knows

a standard ticket is £19 a normal child ticket is £7.25

Mia uses the Group Saver Offer. She thinks she saves more than £20

Is Mia correct? Show why you think this.

(6)

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| | | | | (Total | for Question | 3 is 6 marks) | |
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Use the box below to show clearly how you get your answer.



4 Dave and Mia live in Drayton.

It takes $\frac{1}{4}$ hour to get to Drayton station.

They want to get to the station 20 minutes before the train leaves.

They want to arrive in Lenster between 10 am and 10:30 am. They must travel on a Mid England train to use the Group Saver Offer.

Here is the timetable.

| | С | М | С | М | С | С | С | М | С |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Drayton | 08:41 | 08:47 | 09:10 | 09:12 | 09:41 | 09:47 | 10:06 | 10:09 | 10:15 |
| Lenster | 09:27 | 09:48 | 09:55 | 10:18 | 10:27 | 10:24 | 10:53 | 10:52 | 10:50 |

Key: M Mid England Trains C Country Trains

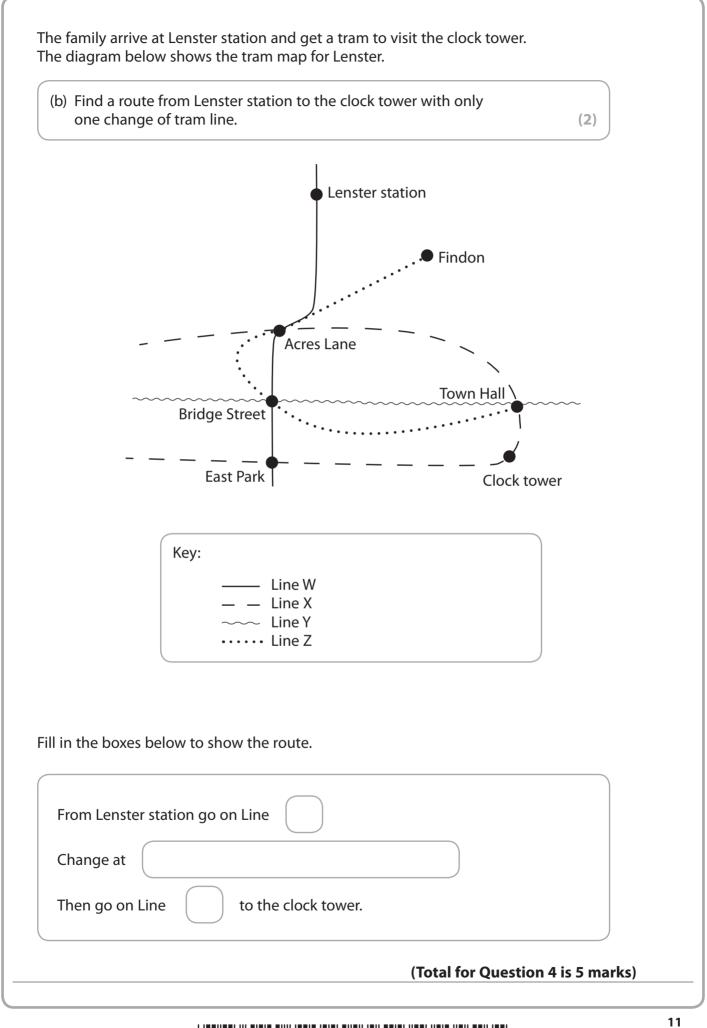
(a) What is the latest time they should leave home?

(3)

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

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5 The weather forecast shows a 25% chance of rain.

Tick the box to show the correct likelihood.

| Impossible | Unlikely | Even chance | Likely | Certain |
|------------|----------|-------------|--------|---------|
|------------|----------|-------------|--------|---------|

Dave, Mia and their 3 children go for lunch at an outdoor cafe.

| <u>Drinks</u> | | Food | | |
|---------------|-------|-----------------|-------|--|
| Tea | £1.65 | Cheese on toast | £2.55 | |
| Coffee | £1.65 | Soup of the day | £2.95 | |
| Cola | £1.75 | Baked potato | £2.45 | |
| | | Ham rolls | £2.25 | |

Dave orders a baked potato for each person.

They are all going to choose a drink.

(b) Choose a drink for each person. What is the total cost for their food and drink?

Show clearly how you have checked your work.

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(1)

(4)

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| - | | (Total for Question 5 is 5 | ma |



SECTION C: Plastering

Answer all questions in this section.

Write your answers in the spaces provided.

6 Amir works for a builder. He plasters walls and ceilings.

Amir has to plaster some walls in a house.

These are the instructions for mixing the base layer of plaster.

Mix 5 parts sand with 1 part cement.

Amir has 25 kg of cement.

(a) How much sand should Amir mix with 25 kg of cement for the base layer?

(2)

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

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Amir has to put a finishing layer of plaster on the walls. These are the instructions to work out how much plaster he needs. Area of wall Plaster needed × 5 ÷ 2 (m^{2}) (kg) The area of the wall is 32 m². Amir has 4 bags of plaster. Each bag contains 25 kg. (b) Does Amir have enough plaster to cover the walls? (4) Use the box below to show clearly how you get your answer. (Total for Question 6 is 6 marks)



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7 Amir has a job to plaster a ceiling in a kitchen. The ceiling is rectangular 3 m by 5 m. DO NOT WRITE IN THIS AREA Diagram **NOT** 3 m accurately drawn 5 m Amir charges £23 to plaster each square metre of the ceiling. He works out he should charge £300 for the job. DO NOT WRITE IN THIS AREA (a) Is Amir correct? Show why you think this. (3) Use the box below to show clearly how you get your answer. DO NOT WRITE IN THIS AREA 16

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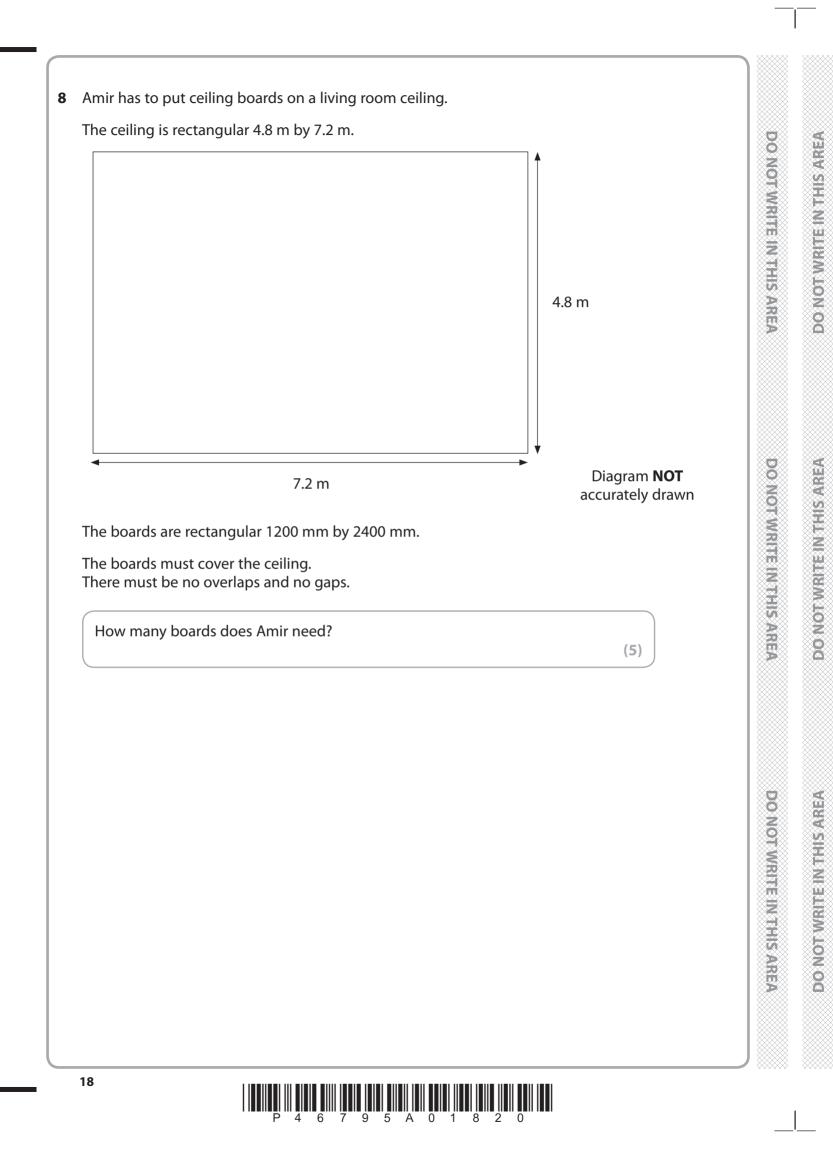
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| (b) Wha | t is 20% of £300? | | (2) |
|------------|------------------------------|------------------------|-----|
| Use the bo | ox below to show clearly how | v you get your answer. | |
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| DO NOT WRITE IN THIS AREA | DO NOT WRITE IN THIS AREA | (Total for Question 8 is 5 marks) TOTAL FOR PAPER IS 48 MARKS | |
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