

Centre No.						Paper Reference					Surname	Initial(s)			
Candidate No.						F	M	2	0	1	/	0	1	Signature	

Paper Reference(s)

FM201/01

Edexcel Functional Skills Mathematics

Level 2

Friday 15 May 2009 – Afternoon

Time: 1 hour 15 minutes



Examiner's use only

--	--	--

Team Leader's use only

--	--	--

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, pen, HB pencil, eraser, calculator.

Items included with question papers

Insert for question 7

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.

Answer ALL the tasks and questions. Write your answers in the spaces provided in this question paper.

If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). In this question paper there are 3 questions in Task 1, 3 questions in Task 2 and 2 questions in Task 3. The total mark for this paper is 48.

There are 20 pages in this question paper. Any blank pages are indicated.

Calculators may be used.

Advice to Candidates

Show all stages in any calculations.

Work steadily through the paper. Do not spend too long on one question.

If you cannot answer a question, leave it and attempt the next one.

Return at the end to those you have left out.

This publication may be reproduced only in accordance with Edexcel Limited copyright policy. ©2009 Edexcel Limited.

Printer's Log. No.
H34554A

W850/RFM201/57570 6/6/6



H 3 4 5 5 4 A 0 1 2 0

Turn over

edexcel
advancing learning, changing lives

TASK 1: BABIES

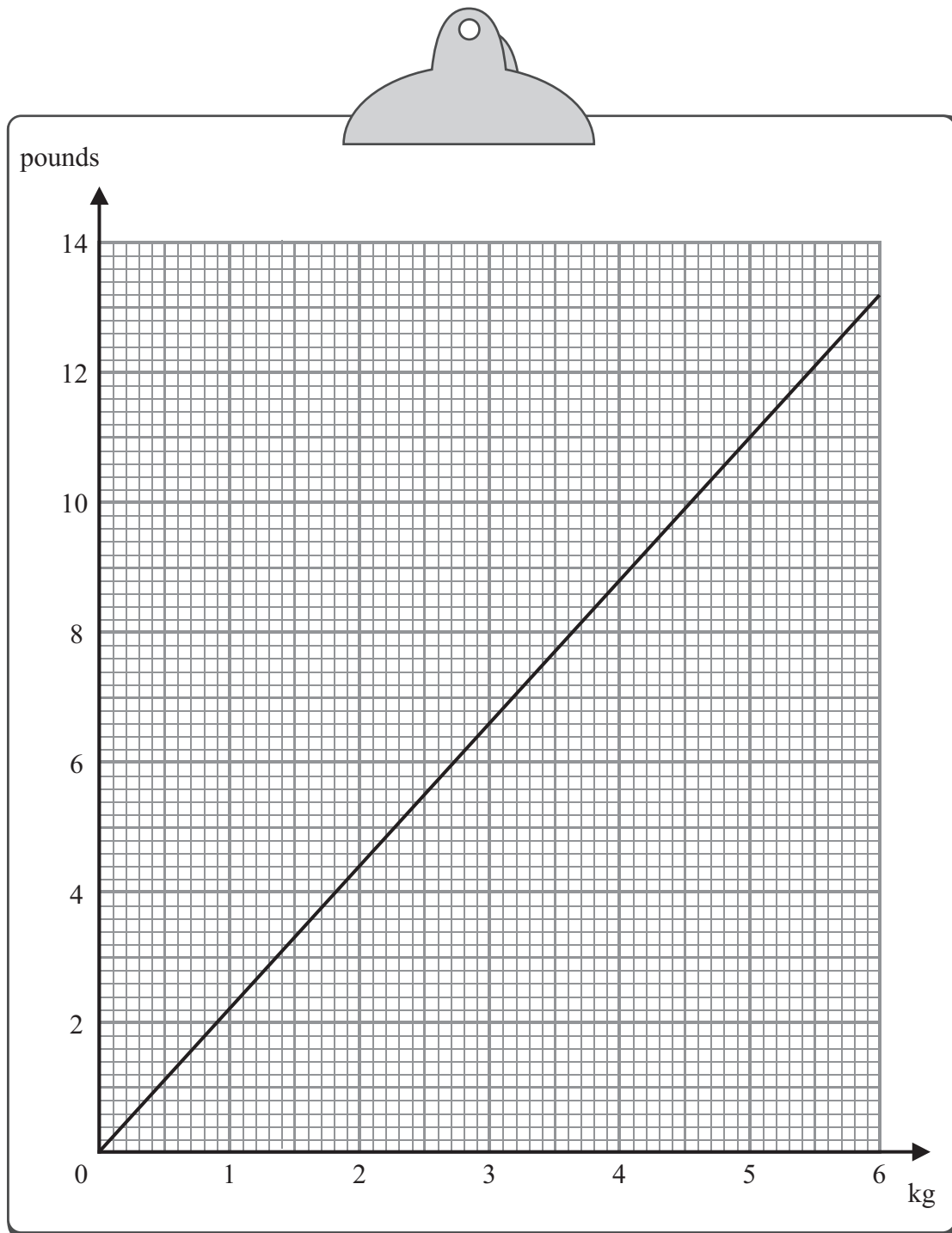
Answer all questions in this task.

Write your answers in the spaces provided.



Where you see this sign you must show clearly how you get your answers as marks may be awarded for your working out.

1. When babies are born they are weighed in kilograms (kg). Many people still prefer to know what this weight is in pounds. This graph can be used to convert between **kg** and **pounds**.



Leave
blank

A baby was born with a weight of **5 kg**.

a) What is the weight of the baby in **pounds**?



Weight pounds.

(1)

A mother tells friends that her baby weighs **8 pounds**.

b) What is the weight of the baby in **kg**?



Weight kg.

(1)

Q1

(Total 2 marks)



Leave
blank

2. Barbara and Bob have twins, both girls.

They are interested in finding out how tall their baby girls are likely to grow.

This formula is used to predict the adult height of a girl.

$$H = \frac{F + M - 12.5}{2}$$

H = adult height of girl (cm)

F = height of father (cm)

M = height of mother (cm)

Barbara has a height of **150 cm**.

Bob has a height of **170 cm**.

Use the formula to predict the adult height of their girls.

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



Height cm

Q2

(Total 3 marks)



BLANK PAGE
TURN OVER FOR QUESTION 3



5
Turn over

3. Barbara wants to find out the **amount** and **cost** of formula milk needed to feed her two babies for one week.

Formula milk is made by mixing formula milk powder with water.



These are the instructions on a tin of formula milk powder.

Recommended amount of formula milk needed per day

2.6 fluid ounces per pound of body weight.

Use one 4.5 g scoop of powder to make 1 fluid ounce of formula milk.

1 fluid ounce = 30 ml

Each tin of formula milk powder contains **900 g** of powder.

Each tin of formula milk powder costs **£7.97**

The total weight of Barbara's two babies is **27 pounds**.



Leave
blank

How many tins of formula milk powder will Barbara need that week, **and** how much in total will they cost?

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



Blank area for showing the solution to the problem.

Number of tins

Total cost £

(Total 8 marks)

Q3



TASK 2: JOBS

Answer all questions in this task.

Write your answers in the spaces provided.



Where you see this sign you must show clearly how you get your answers as marks may be awarded for your working out.

4. Barry works for an agency which interviews people for jobs.

A person interviewed for a job handed in this claim form.

INTERVIEW CLAIM FORM

Complete all sections and submit receipts with your claim.

Train fare: £ 122.50

Car travel
..... 30 miles at 27p per mile: £

Travel refreshments
..... £4.80 and £3.40 Total: £

Total claim: £

a) Complete the claim form and work out the **Total claim**.

(3)



Leave
blank

The claim form is out of date.

The current allowance for car travel is now **29p** per mile.

b) What amount of money should be **added** to the **Total claim** to correct this claim?

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



(2)

Q4

(Total 5 marks)



5. There are **6** people to have interviews for a job.

The **6** people are Ali, Ben, Charlie, Dan, Eric and Fran.

They will each have five separate interviews.

Each person is interviewed once in each of 5 rooms.

Anyone not being interviewed is asked to use the waiting room.

- Each interview lasts **15** minutes.
- There are **5** minutes between each interview.
- The first interviews start at **9.00 am**.

All rooms can be used at the same time.

Room 1	Room 2	Room 3	Room 4	Room 5	Waiting room

Draw a chart or table, showing times and rooms, for the six people being interviewed.



Leave
blank

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



Q5

(Total 6 marks)

11

Turn over



6. Barry has been asked to compare the pay for **four** similar jobs advertised in a paper.



Able Computer Sales
Sales Assistant

You will spend time in the field, working both from our Manchester headquarters and from home in the North West region.

Pay: £23,000 per annum

Beta IT Support
Sales Consultant

Full time: 30 hours per week
Pay: £15 per hour

Tele-sales based in our new offices.
Daily hours variable.

Compu Systems
Sales Agent

As a sales agent your pay will be £1800 per month, plus commission of 1% of monthly sales.
You can expect to make monthly sales to a minimum value of £22,000.

Digital Hardware
Sales Adviser

You will be part of a team with a salary of £20,000 per annum + team bonus.
Team bonus last year was 20% of salary.

Which job pays the most?



Leave
blank

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



Q6

(Total 8 marks)



TASK 3: HOLIDAYS

Answer all questions in this task.

Write your answers in the spaces provided.



Where you see this sign you must show clearly how you get your answers as marks may be awarded for your working out.

7. Jane and Jed are planning a holiday for their family.
They have picked three hotels in the same area. The pricing details are shown below.

The tables show the cost per adult and the cost per child for the period June to August 2009.

The dates given in the tables are based on the start of the holiday.

Hotel Festival Park

		June			July		August			
		11 Jun-20 Jun	21 Jun-27 Jun	28 Jun-8 Jul	9 Jul-15 Jul	16 Jul-1 Aug	2 Aug-15 Aug	16 Aug-19 Aug	20 Aug-22 Aug	23 Aug-26 Aug
Adults	7	389	445	479	509	545	535	515	485	375
	14	589	719	795	829	859	839	725	619	539
1 st child	7	199	209	219	229	305	299	295	289	275
	14	199	209	239	259	389	449	439	355	275
2 nd child	7	279	279	285	295	319	339	345	345	335
	14	369	449	469	559	555	549	539	485	385

Hotel Daurada Palace

		June			July		August			
		11 Jun-20 Jun	21 Jun-27 Jun	28 Jun-8 Jul	9 Jul-15 Jul	16 Jul-1 Aug	2 Aug-15 Aug	16 Aug-19 Aug	20 Aug-22 Aug	23 Aug-26 Aug
Adults	7	409	419	449	475	529	545	585	525	389
	10	509	559	619	615	659	639	625	-	479
	11	539	619	655	645	689	679	-	569	-
	14	585	659	705	699	809	805	765	615	539
1 st child	7	235	235	235	235	265	265	265	265	185
	10-14	269	269	285	285	319	319	319	299	259
2 nd child	7	275	275	275	275	315	315	315	315	235
	10-14	315	315	329	329	375	375	375	355	315

Hotel Romana

		June			July		August			
		11 Jun-20 Jun	21 Jun-27 Jun	28 Jun-8 Jul	9 Jul-15 Jul	16 Jul-1 Aug	2 Aug-15 Aug	16 Aug-19 Aug	20 Aug-22 Aug	23 Aug-26 Aug
Adults	7	399	425	439	515	565	579	565	495	425
	10	485	539	605	655	729	695	619	-	489
	11	509	585	635	685	765	735	-	559	-
	14	569	645	705	765	859	819	679	649	565
1 st child	7	209	209	209	209	249	249	249	249	189
	10-14	209	209	209	209	249	249	249	249	189
2 nd child	7	299	299	299	299	349	349	349	349	289
	10-14	399	399	399	399	449	449	449	429	379



Jane and Jed have two children.
They want to book a **14** night holiday starting on 10th August.

They also need to arrange holiday insurance and a taxi to and from Manchester Airport.

Holiday Insurance.

Adult policy: price per adult: £22.00
Child policy: price per child: £13.00
Family policy: price per family: £50.00

Manchester Airport Taxi Fares.

Radio cabs: £35.00 one way
Tax Taxis: £65.00 both ways
Tele Cabs: £32.00 to
 £35.00 from

By booking early they get a discount.

Early booking offer.

Book early and receive the following discounts per adult (no discount for children):

Month	7 nights	14 nights
April and May	£16	£32
June and September	£23	£46
July	£34	£68
August	£45	£90

Work out the cheapest holiday including **hotel, insurance** and **taxi** fare.





Leave
blank

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



Leave
blank

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



Q7

(Total 8 marks)

17

Turn over



8. Jane and Jed are interested in buying a villa in Spain. Before looking at villas they want to find the best region in Spain for a villa. They would like the region which offers the best weather.

Here are some weather statistics for three regions in Spain.

Costa de la Luz

Months: April to October	A	M	J	J	A	S	O
Average maximum daily temperature °C	19	21	25	29	29	27	22
Average daily hours of sun	9.0	9.5	10.5	10.5	10.5	9.0	7.5
Average monthly rainfall (cm)	3.5	2.7	0.8	0.1	0.1	2.2	5.4

Costa de Almeria

Months: April to October	A	M	J	J	A	S	O
Average maximum daily temperature °C	20	23	27	29	30	28	24
Average daily hours of sun	9.0	9.5	10.5	11.0	10.0	8.5	7.0
Average monthly rainfall (cm)	1.4	1.6	0.8	0.1	0.1	1.8	3.9

Costa Blanca

Months: April to October	A	M	J	J	A	S	O
Average maximum daily temperature °C	21	24	27	31	32	28	24
Average daily hours of sun	8.0	9.0	10.0	10.5	9.5	8.5	7.0
Average monthly rainfall (cm)	3.2	3.2	1.7	0.6	0.8	4.8	4.9

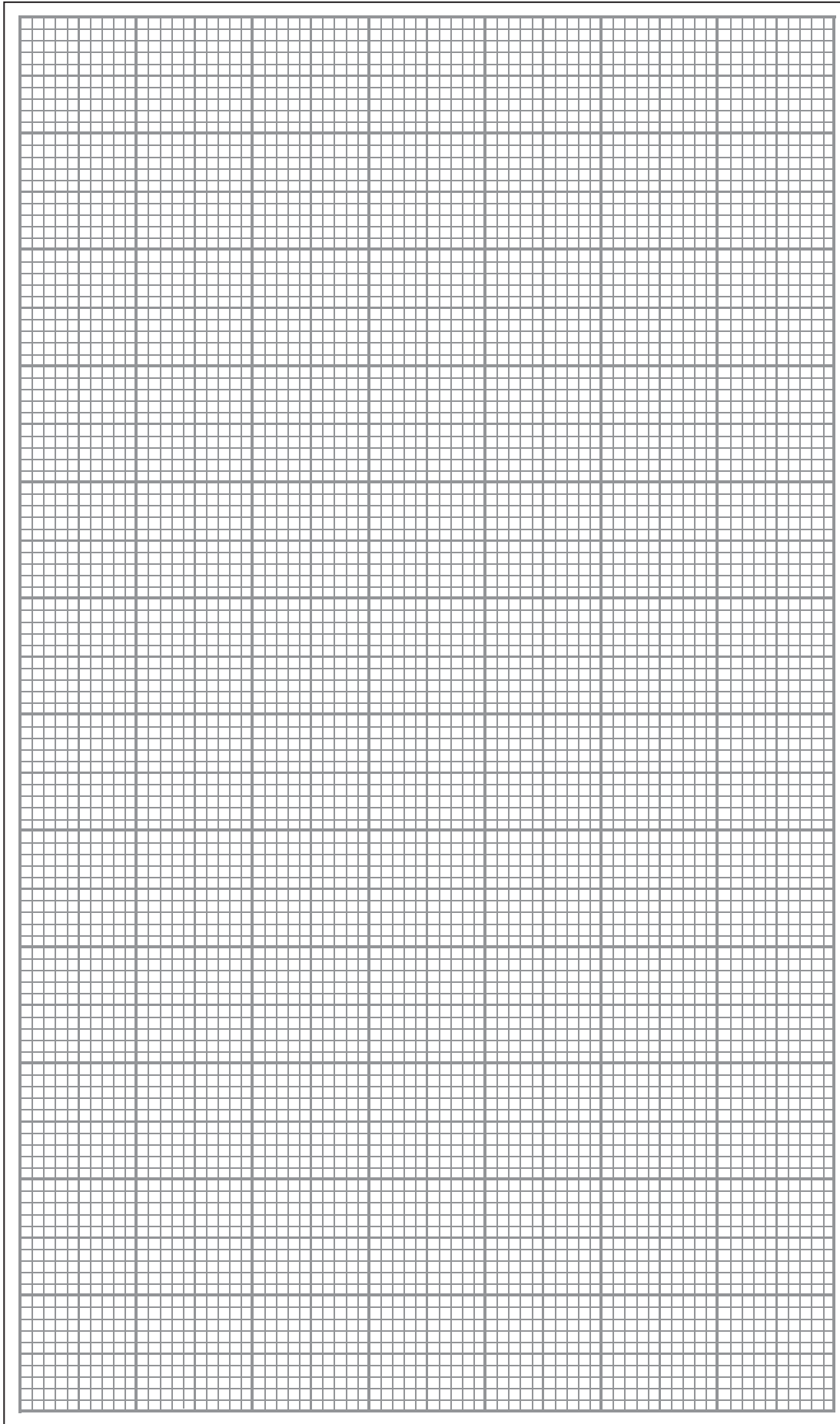
Which of these regions of Spain should Jane and Jed choose?
 Make a recommendation.
 Use calculations and graphs to support your recommendation.

Use the box below to show clearly any calculations or recommendations.



Leave
blank

You can draw any graphs or charts on the grid below.



Leave
blank

Use the box below to show any calculations or recommendations.



Q8

(Total 8 marks)

TOTAL FOR PAPER: 48 MARKS

END

