

Centre No.						Paper Reference	Surname	Initial(s)
Candidate No.						FM101/01	Signature	

Paper Reference(s)

FM101/01

Edexcel Functional Skills Mathematics

Level 1

Friday 15 May 2009 – Afternoon

Time: 1 hour 15 minutes



Examiner's use only

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Team Leader's use only

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Materials required for examination

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

Items included with question papers

Nil

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 5 questions in Task 1, 3 questions in Task 2 and 3 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.

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TASK 1: BABIES

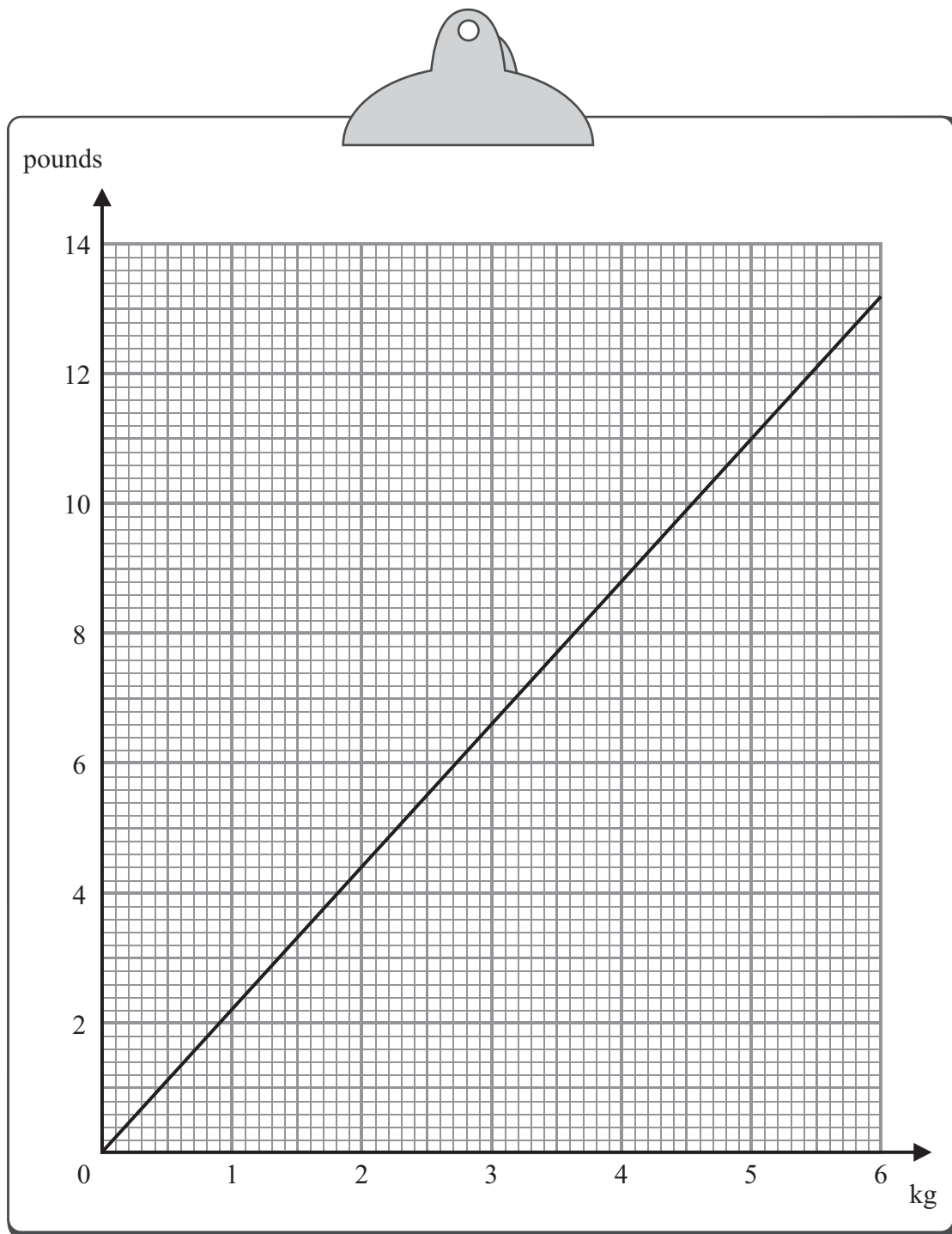
Answer all questions in this task.

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

The weight of a baby is **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 her baby in **kg**?



Weight kg.

(1)

Q1

(Total 2 marks)



2. These are the top ten girls' names given to babies in England and Wales in 2007 and 2008.

Girls names 2007

- 1 Grace
- 2 Ruby
- 3 Olivia
- 4 Jessica
- 5 Sophie
- 6 Chloe
- 7 Emily
- 8 Lily
- 9 Lucy
- 10 Mia

Girls names 2008

- 1 Olivia
- 2 Ruby
- 3 Grace
- 4 Emily
- 5 Jessica
- 6 Sophie
- 7 Chloe
- 8 Lily
- 9 Mia
- 10 Lucy

Barbara has just had twin baby girls and would like to find out which names are becoming more popular.

a) Which names are in the same position in 2008 as in 2007?



(1)

b) Which name has made the **greatest** change in position from 2007 to 2008?



(1)

Q2

(Total 2 marks)



3. When the twins were born, Barbara was in a hospital.
The twins were born on a Monday.
On that day in the hospital twice as many boys were born than girls.

3 girls were born.

a) How many **boys** were born?



..... boys

(2)

A nurse says

‘The probability of a girl being born on any one day should be exactly $\frac{1}{2}$.’

b) Is this nurse right? Give a reason for your answer.

.....
.....
.....
.....

(1)

c) What information could the nurse collect to show whether this probability is right or is wrong?

.....
.....
.....
.....
.....

(1)

(Total 4 marks)

Q3



H 3 4 5 4 6 A 0 5 2 0

4. Barbara needs to keep a record of the following details for each of her babies during their first year.

weight (in pounds or kg)
height (in cm)
head circumference (in cm)

Personal
Child
Health
Record

She will need to record these measurements on at least **6** occasions.

Design a table or chart that she could use to record this information.

Use the box below to show clearly your table or chart.



Leave
blank

Use the box below to show clearly your table or chart.



Q4

(Total 3 marks)

7

Turn over



5. 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.

Each tin of formula milk powder can be used to make **200** fluid ounces of formula milk.

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

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



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.



A large empty rectangular box for writing the solution to the problem.

Number of tins

Total cost £

(Total 6 marks)

Q5



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.

6. 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 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)

Q6

(Total 5 marks)

11

Turn over



Leave
blank

7. Barry has to organise some interviews for a computer company.
Up to **10** people can be interviewed each day.

62 people are to be interviewed.

What is the least number of days needed for these interviews?

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



Number of days

(Total 3 marks)

Q7



Leave blank

8. Barry has been asked to compare the pay for **two** 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.



Which job pays the most?

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



Q8

(Total 5 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.

9. 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
Adult	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
Adult	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
Adult	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



Leave
blank

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

Work out the cheapest hotel for the holiday.

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



Q9

(Total 6 marks)

15

Turn over



H 3 4 5 4 6 A 0 1 5 2 0

10. When on holiday Jane and Jed would like their family to go on a number of tours.

They have chosen **6** tours they would all like to go on.

		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> MALLORCA TOURS </div>	
Tour		Adult	Child
101	Caves of wonder	€45	€35
104	Historical Palma	€40	€35
105	Palma shopping	€44	€35
107	Flamenco show	€50	€40
110	Jeep safari	€45	€35
112	River cruise	€50	€35

Jane and Jed have no more than **€800** to spend on tours.

They would like to go on as many tours as they can.



Leave
blank

Work out which of these tours Jane, Jed and their two children can go on.

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



Q10

(Total 6 marks)



11. Jane is also planning her own trip to **Palma** on the local train from **Sa Pobra**.



This is part of the train timetable.

Sa Pobra	0923	1023	1123	1223	1323
Inca	0941	1041	1141	1241	1341
Santa Maria	0957	1057	1157	1257	1357
Marratxi	1005	1105	1205	1305	1405
Palma	1020	1120	1220	1320	1420

a) How **long**, in **minutes**, is the train journey from **Sa Pobra** to **Palma**?

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



(2)



The drive from the hotel to the station will take 30 minutes.
 She wants to travel by train from **Sa Pobla** to **Palma**, visiting **Inca** for $1\frac{1}{2}$ hours on the way.

b) Complete the table below.

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



	Time
Jane leaves the hotel	
Jane leaves Sa Pobla on a train	
Train arrives at Inca (Jane gets off)	
Jane leaves Inca on another train	
Jane arrives at Palma	

(4) Q11

(Total 6 marks)

TOTAL FOR PAPER: 48 MARKS

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