

OXFORD CAMBRIDGE AND RSA EXAMINATIONS LEVEL 2 FUNCTIONAL SKILLS MATHEMATICS

09866

TASK AND ANSWER BOOKLET PRACTICE PAPER 5

TIME: 1 HOUR 30 MINUTES

INSTRUCTIONS

Fill in all the boxes below. Make sure your personal details are entered correctly. Use **BLOCK LETTERS**.

Your surname or family name																			
Your first forename (if any)																			
Your second forename (if any)																			
Date of birth]										
Centre name																			
Centre number						1							50		V A 8				
Your OCR candidate number								FU	R E		ILY		12E						
At the beginning of this booklet ve		ll fir]			(Que N	stio Io	n	Ма	ark	Тс	otal
Documents You will need to refe	u wii r to t	n III hog	iu ii e d	locu	UII F IMAI	nte f		e							TAS	SK A	١		
complete the tasks.		nec		1000		11.5	.0										/		
												-					/		
You will also need:																	/		
• a pen with black ink																			
• a calculator															T A C		/		/20
• a ruler												-			TAS		5		
YOU HAVE 1 HOUR AND 30 I	MIN	ιт	FS	т∩	CC	M) F	TE	тн	F							/		
THREE TASKS			20	10		/ 14/11			•••								/		
																	/		
For each task, make sure that you	I:																/		/20
 read the questions carefully before starting 									TAS	SK C	;								
write your answers in this booklet									/										
 clearly show how your working 	clearly show how your working leads to your answers /																		
2 marks are available in each task when you show you have											/								
checked your work.							<u> </u>					/		/20					

When you have finished, hand this booklet and all the Resource Documents to the supervisor.

Ofqual Qualification Reference Number: 500/8910/9

This document consists of 28 pages. Any blank pages are indicated.

Registered Company Number: 3484466

Total

/60

RESOURCE DOCUMENTS

The Resource Documents on pages 5, 7, 9 and 11 contain information to help you to answer the tasks in this booklet.

- The resource documents are perforated along the left hand side, so they can be removed from the task and answer booklet.
- Your supervisor will instruct you when to remove the resource documents, before you start the assessment.
- Please fold pages 5, 7, 9 and 11 along the perforated strip before removing from the task and answer booklet.

TASK A – GARDEN TIP

RESOURCE DOCUMENT 1

Andy's recommended firms.

RON'S RUBBISH

£112.50 per tonne, all in, no other charges at all.

50/50 RUBBISH £50 per tonne plus £50 per hour of time.

THE RUBBISH TIPPER LORRY COMPANY
6 cubic metre capacity tipper costs £150 per load with a maximum load of 1½ tonnes.
1½ hours free labour for each load.
Any labour time more than the free time costs £80 per hour



TASK B – BABIES

RESOURCE DOCUMENT 1

Rik found this table in an old book on childbirth.

Hour	Number	Number in 6-hourly Period	Number in 12-hourly Period	Total
11pm to 12 Midnight	200			
12 Midnight to 1am	138			
1am to 2am	179			
2am to 3am	1 <u>90</u>			
3am to 4am				
4am to 5am	185			
		J	2227	
5am to 6am	197		- 2231	
6am to 7am	179			
7am to 8am	167			
8am to 9am	189	- 1127		
9am to 10am	170			
10am to 11am	225			
				4004
11am to 12noon	152		٦	4031
12noon to 1pm	152			
1pm to 2pm	136			
2pm to 3pm	149	- 891		
3pm to 4pm	153			
4pm to 5pm	149			
		J	4704	
5pm to 6pm	142		- 1794	
6pm to 7pm	162			
7pm to 8pm	130			
8pm to 9pm	133	903		
9pm to 10pm	179			
10pm to 11pm	157)
				~

TASK B – BABIES

Time of	*Gender	Weight
birth		(kg)
00:05	В	3.84
01:04	В	3.33
01:18	G	3.54
01:55	G	3.84
02:57	G	3.63
04:05	В	2.21
04:07	В	1.75
04:22	G	2.85
04:31	G	3.17
07:08	G	3.52
07:35	G	3.38
08:12	G	3.29
08:14	В	2.58
09:09	В	3.21
10:35	G	3.52
10:49	В	3.75
10:53	В	3.52
11:33	G	2.90
12:09	G	2.64
12:56	G	3.92
13:05	G	3.69
14:06	В	3.43

Times of birth, gender and weight of babies born in 24 hours in a large maternity ward 2010.

Time of birth	*Gender	Weight (kg)
14:07	В	3.48
14:33	В	3.12
14:46	В	3.43
15:14	G	3.78
16:31	G	3.35
16:57	G	3.03
17:42	В	2.18
18:07	G	3.30
18:25	В	2.38
18:54	G	3.43
19:09	G	4.16
19:47	G	3.63
19:49	G	3.40
19:51	G	3.40
20:10	В	3.50
20:37	G	3.74
20:51	G	3.37
21:04	G	2.12
21:23	G	3.15
22:17	В	3.87
23:27	В	3.54
23:55	В	3.28

*B=boy, G=girl

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TASK C – THE BIRTHDAY CAKE

RESOURCE DOCUMENT 1

Rich Fruit Cake

	Cake Diameter								
	15cm (6in)	18cm (7in)	20cm (8in)	23cm (9in)	25cm (10in)	28cm (11in)	30cm (12in)		
Currants	150g (5oz)	225g (8oz)	350g (12oz)	450g (1lb)	625g (1lb 6oz)	775g (1lb 11oz)	1.2kg (2lb 8oz)		
Sultanas	50g (2oz)	90g (3.5oz)	150g (5oz)	200g (7oz)	225g (8oz)	375g (13oz)	400g (14oz)		
Raisins	50g (2oz)	90g (3.5oz)	150g (5oz)	200g (7oz)	225g (8oz)	375g (13oz)	400g (14oz)		
Glace Cherries (chopped)	40g (1.5oz)	65g (2.5oz)	75g (3oz)	125g (4oz)	150g (5oz)	225g (8oz)	275g (10oz)		
Mixed Peel (chopped)	25g (1oz)	50g (2oz)	50g (2oz)	75g (3oz)	125g (4oz)	150g (5oz)	200g (7oz)		
Blanched Almonds (chopped)	25g (1oz)	50g (2oz)	50g (2oz)	75g (3oz)	125g (4oz)	150g (5oz)	200g (7oz)		
Lemon Rind (grated)	¼ of a lemon	1⁄2 a lemon	³ ⁄ ₄ of a lemon	A whole lemon	A whole lemon	A whole lemon	1½ lemons		
Plain Flour	90g (3.5oz)	175g (6oz)	200g (7oz)	350g (12oz)	400g (14oz)	600g (1lb 5oz)	700g (1lb 10oz)		
Ground Cinnamon (optional)	2.5ml (Half teaspoon)	2.5ml (Half teaspoon)	5ml (1 teaspoon)	5ml (1 teaspoon)	7.5ml (1.5 teaspoons)	10ml (2 teaspoons)	12.5ml (2.5 teaspoons)		
Ground Mixed	1.5ml (Quarter	1.5ml (Quarter	2.5ml (Half	5ml	5ml	7.5ml (1.5	7.5ml (1.5		
Spice (optional)	teaspoon)	teaspoon)	teaspoon)	(1 teaspoon)	(1 teaspoon)	teaspoons)	teaspoons)		
Butter	75g (3oz)	150g (5oz)	175g (6oz)	275g (10oz)	350g (12oz)	500g (1lb 2oz)	600g (1lb 5oz)		
Light Soft Brown Sugar	75g (3oz)	150g (5oz)	175g (6oz)	275g (10oz)	350g (12oz)	500g (1lb 2oz)	600g (1lb 5oz)		
Eggs (size 2)	1.5	2.5	3	5	6	9	11		
Black Treacle	5ml	5ml	15ml	15ml	15ml	30ml (2	30ml (2		
(optional)	(1 teaspoon)	(1 teaspoon)	(1 tablespoon)	(1 tablespoon)	(1 tablespoon)	tablespoons)	tablespoons)		
Approx Cooking Time	2 hours	2 hours 30 mins	2 hours 45 mins	3 hours 15 mins	3 hours 45 mins	4 hours 15 mins	5 hours 15 mins		
Approx Cooked Weight	625g (1.5lb)	1.25kg (2.5lbs)	1.50kg (3.25lbs)	2kg (4.5lbs)	2.75kg (6lbs)	4kg (9lbs)	5kg (11lbs)		

TASK AND ANSWER PAGES

Do not turn over this page until you are told to do so by your supervisor.

TASK A – GARDEN TIP

You will need Task A Resource Document 1

Andy and Paul have moved into a new house.

The builders have left a lot of rubble and bricks to be cleared.

Andy works in the building trade.



Companies which remove rubbish charge by volume or by weight.

A cubic metre of builders' rubbish weighs about 2.2 tonnes.

Q1 (a) (i) About how much will the rubbish in Andy's and Paul's garden weigh?

(2 marks)

At first they plan to bag up the rubbish themselves and take them to the local tip.



They are both reasonably fit.

(ii) How many bags in total will they need to fill and carry to get rid of all the rubbish?

Jot down any assumptions you make.

(3 marks)

Some firms charge by the hour for labour as well as for hiring the lorry or skip. To clear this lot and tidy up will take about 10 hours. (b) Which of the three firms is the cheapest? Show clearly how you decide. Examiner (5 marks)

Andy and Paul decide they need a garden bench.

They find some like these advertised on the Internet but they are very expensive. An average price is about £200!







use only (Q1)



use only (Q1)

Examiner use only

(Total)

Paul says

TASK B – BABIES

You will need Task B Resource Document 1

Rik's friend Carol is expecting a baby. He looks on the internet for a way to predict if the baby will be a boy or a girl.

He comes across this table. It is supposed to show how the gender of a baby depends on its expected birth month (and the mother's age then.)

Mother's Age	Jan	Feb	Mar	Apr	Mav	Jun	Jul	Αυα	Sep	Oct	Nov	Dec
20	Boy	Girl	Girl	Boy	Girl	Boy	Girl	Girl	Boy	Boy	Boy	Boy
21	Girl	Boy	Boy	Girl	Boy	Girl	Boy	Boy	Boy	Boy	Boy	Boy
22	Girl	Girl	Girl	Boy	Girl							
23	Girl	Girl	Girl	Girl	Boy	Boy	Girl	Girl	Girl	Girl	Boy	Girl
24	Boy	Boy	Girl	Boy	Boy	Girl	Boy	Boy	Girl	Boy	Girl	Boy
25	Girl	Girl	Girl	Boy	Girl	Boy	Boy	Girl	Boy	Boy	Girl	Girl
26	Boy	Boy	Boy	Girl	Boy	Boy	Girl	Girl	Boy	Girl	Boy	Boy

Expected Birth Month

19

On the internet the table extends in a similar way for older and younger women.

Carol's baby is due in May, when she is 20.

Q1 (a) What gender does the table predict the baby will be?

(1 mark)

Look at the row in the table for women who give birth at age 25.

(b) According to the table, what is the probability of a 25 year-old woman giving birth to a boy?

(2 marks)

Rik decides not to use the table. He becomes interested in other beliefs about babies.



The table Rik has used is over 50 years old. He finds some more up-to-date information.



(4 marks)

Investigate this claim.		
	Baby boys are heavier than baby girls.	>
		Examiner use only (Q2)
	(5 marks)	
	Chasking (2 marks)	Examiner use only
	Checking (2 marks)	(Checking)
	Total marks	Examiner use only
END OF TASK B		

(e)

TASK C – THE BIRTHDAY CAKE

You will need Task C Resource Document 1

Riley is in his first year at catering college.

He wants to make and ice a 3-tier birthday cake. It is for his sister Ella's 21st birthday.





0

Riley's first task is to work out the diameters of the three cakes needed. He looks back at his cake making notes.

	denend	ls on diame	ter of the	, cake	
Number of serving Diameter (cm) Servings	15 15 15	20 30	25 45	30 60	

Q3 (a) (i) How many people will a 2-tier cake with cakes of diameters 15 cm and 20 cm serve?

(1 mark)

(ii) Ella expects about 130 people at her 21st. Riley realises he will need to make a 3-tier cake.

What diameter cakes will Riley need to make?

(2 marks)

Riley decides to make rich fruit cakes. He will make and ice the cakes at college.

(b) (i) How much plain flour in total will Riley need to make his three cakes?



25

Each of the cakes is to be iced separately.

Riley found this simple recipe for cake icing on the internet.



He also found this:

Icing a cake to an even thickness can be difficult. Split the cake icing into two piles. Make one pile twice the weight of the other. Spread the lighter pile on the top and the other round the side of the cake.

(c) According to this rule what weight of icing sugar is needed to ice the top of a 25 cm diameter cake?

(3 marks)

Riley needs to ice all three cakes.

(d) Roughly, what weight of each icing ingredient will he need? Explain how you arrived at your answer.

	Examiner
	(Q3)
(4 marks)	
	Examiner
Checking (2 marks)	use only (Checking)
Q3 (plus checking) marks	Examiner use only
	(Total)

END OF TASK C

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OXFORD CAMBRIDGE AND RSA EXAMINATIONS

LEVEL 2 FUNCTIONAL SKILLS MATHEMATICS

PRACTICE PAPER 5

Mark Scheme

The maximum mark is 60

OCR Level 2 Functional Skills Maths Referencing for Coverage and Range

Our ref	Coverage and Range
N1	understand and use positive and negative numbers of any size in practical contexts
N2	carry out calculations with numbers of any size in practical contexts, to a given number of decimal places
N3	understand, use and calculate ratio and proportion, including problems involving scale
N4	understand and use equivalences between fractions, decimals and percentages
A1	understand and use simple formulae and equations involving one- or two-step operations
G1	recognise and use 2D representations of 3D objects
G2	find area, perimeter and volume of common shapes
G3	use, convert and calculate using metric and, where appropriate, imperial measures
S1	collect and represent discrete and continuous data, using information and communication technology (ICT) where appropriate
S2	use and interpret statistical measures, tables and diagrams, for discrete and continuous data, using information and communication technology (ICT) where appropriate
S3	use statistical methods to investigate situations
S4	use probability to assess the likelihood of an outcome

Representing	Our Ref
Understand routine and non-routine problems in familiar and unfamiliar contexts and situations	R1
Identify the situation or problems and identify the mathematical methods needed to solve them.	R2
Choose from a range of mathematics to find solutions.	R3
Analysing	
Apply a range of mathematics to find solutions.	A1
Use appropriate checking procedures and evaluate their effectiveness at each stage.	A2
Interpreting	
Interpret and communicate solutions to multistage practical problems in familiar and unfamiliar contexts and situations.	11
Draw conclusions and provide mathematical justifications	12

N – Number

A – Algebra G – Geometry S - Statistics

FS Maths L2 September 2011 Marking Guidance

Task 1 – Garden Tip

Process	Award	On evidence of
Section (a)		
(i) Calculating weight of rubbish [A]	2	 11 or 5 × 2.2 seen tonnes (an independent mark)
(ii) Estimating number of bags of rubble.	3	1: Statement of comfortable load (5 to 60) kg – must have units
[B]		 and 11 x 1000 = 11000 kg "11000" ÷ ("5 to 60 kg") i.e. follow through on "comfortable load" If clearly working in tonnes the follow through assume the first mark. or 2: 183 to 2200 with working (bags) but 1: without working. Accept double/half the above figures where candidates explicitly mention two men working together carrying a sack.
		SC1 for <i>explicit</i> statement to the effect "Don't know but need to know comfortable load."
Section (b)		
Calculating cost of the different firms [C]	4	 Full follow through on "weight of rubbish". 2: First correct 2: 1 for each subsequent (ie 1 + 1 possible)
		Ron's Rubbish (£)1 237.50 (correct answer only ft from (a)I)
		50/50(£) 1 050(correct answer only ft from (a)i)
		The Rubbish Tipper (£)1 200 <i>as answer</i> (correct answer only ft from (a)i)
Choosing the cheapest option [D]	1	Statement of the cheapest option from at least two calculated by candidate (not necessarily correct calculations)

Process	Award	On evidence of
Section (c)		
Making an overall plan/costing for the garden bench [E]	3	 Implied use of (2 to 5) sleepers Cost consistent with above ie "number" × £21.50 (£43 / 64.50 / 86 / 107.50 / 129 or follow through from "number of sleepers") Relevant conclusion comparing above with £200 price ie with Paul's initial statement.
Drawing a sketch of the garden bench [F]	2	2: Sketch(s) broadly consistent with the above with attempt to put in a least one "length" correct units 1: lack of any one "length" shown.
Making and labelling a feasible design [G]	3	Based on dimensions of seating area- possibly embedded in drawing or "written" plan – units may be implied1: Seat depth ≥ 20 cm1: Seat width ≥ 100 cm (upper bound 260 cm)1: Height of seat above ground <i>h</i> , 30 cm $\le h \le 100$ cm
[H]	2	 2: Clear evidence of a formal checking procedure being carried out at least once (e.g. by reverse calculation or repeating the calculation providing this is clearly a genuine check as opposed to a mere copying exercise). 1: Clear recognition and relevant statement at any appropriate point that a particular answer to a calculation is appropriate/expected or inappropriate/not expected or or Two or more calculations relevant to the task correctly performed, together with the absence of idiosyncratic part answers in the course of the task – these will usually be such that they are clearly at least two orders of magnitude different from the real-life quantity or measure. Possible examples for this task might be benches tens of metres high etc. 0: No evidence of checking or consideration of reasonableness of answers –
		including bland statements to the effect that calculations were checked without any convincing relevant evidence.

Task 2 – Babies

Process	Max.	Award on evidence of	R	Α	I
Part (a)					
Using table top predict sex of baby	1	1: Girl /g	R1		
[A]	•				
Part (b)					
Using table to count months when boy is predicted [B]	1	1: 5 seen or 12 seen as a denominator	R1		
Calculating probability of 25-year old having a boy [C]	1	1: $\frac{5}{12}$ o.e. isw or 5 in/out of 12 but not odds or 5:12	R2		
Part (c)					
(i) Finding missing numbers		1: 1110 seen	R3	A2	
[D]	2	1: 218 seen (may have to look for this)			
	2	Iff total of zero scored award 1 for 892 seen.			
(ii) Investigating claim that greater probability babies		1. Evaluate statement of time interval that constitutes night		Δ1	11
heing horn at night		1. Correct number of births within this period of time			1.1
[E]		(within range of crib sheet) seen			12
L=1		1: Comparing <i>proportion</i> of babies born at night from above			
	4	(be aware of non-standard approaches, but must be			12
		based on a proportional argument)			
		1: A conclusion consistent with above			
		For comparison condone naive numerical comparison			
		(i.e. comparing number at night with number during day)			
Part (0)		A. Lloing come "might time window" for both	D 0		
Comparing probabilities of night birth in 1950/1		1: Using same "night time window for both,	R2		
rei		1. Calculating correct number born in this time period	R2		12
[1]		(within range of crib sheet) seen – this can also imply the first	112		12
	4	mark)			12
		1: Calculating proportion born at night at present			
		(as for [E] must be proportion)			
		1: Consistent comparison made between 1950/1 and present			
		a correct qualitative comparison is acceptable.			

Process	Max.	Award on evidence of	R	Α	Ι
Part (e)					
Investigating claim that baby boys are heavier than baby girls [G]	5	 2: mean or median correctly calculated for boys or 1: attempt to calculate (e.g. "number" ÷ 18 or 56.4 ÷ "number" 1 for ordered list) 2: mean or median correctly calculated for girls or 1: attempt to calculate 	R2 R2	A1 A1	12
		 (e.g. "number" ÷ 26 or 87.75 ÷ "number" 1 for ordered list) 1: Comparison of above to respond to initial question posed. boys girls mean 3.1(333) 3.3(75) median 3.38 3.4 or If zero scored for mean/median calculation: award 1 for naive totals (b= 56.4 and g: 87.75) and 1 for consistent comparison – allow comparison and working based on one column LHS= 43.89 / 27.62 RHS 43.86 / 28.78 (for both marks)			
		or 1: Girls heavier than boys made on comparison of correct maximum weights (girls = 4.16 and boys = 3.87) or minimum (girls=2.12 and boys = 1.74), 1: comparison, (So using max. or min. and $g > b = 1+1$)			
Evidence of checking [H]	2	 Clear evidence of a checking procedure being applied Any recognition that answers are appropriate/expected or inappropriate/not expected or no obvious errors (3 or more correct calculation or part calculations) Obvious incorrect answers or no evidence of checking or considering appropriateness of answer 	0.5	A2 A2	
		5R=3	οκ	0A	01

Task 3 – The Birthday Cake

Process	Max.	Award on evidence of	R	Α	1
Part (a)					
(i) Working out number of people served by 15 cm and 20 cm diameter cakes.	1	1: 45 (people)	R2		
[A]					
(ii) Finding the diameter of cakes in 3-tier arrangement to serve about 130.[B]	2	 2: 20 (cm) 25 (cm) and 30 (cm) or 30 / 30 / 15 or 1: 25/25/20 or 15/25/30 or 30+45+60 	R2		11
Part (b)					
(i) Finding amount of flour need for cakes in (ii). [C]	3	 3: 1300g / 1.3 kg / 2lb 15oz / 47oz (i.e. units needed) allow follow through from (ii) or 2: 1300 / 1.3 / 37 allow follow through from (ii) or 1: Any two of these numbers seen: 200 400 700 	R2	A1	11
(ii) Constructing timetable for preparation of ingredients and cooking all three cakes.[D]	5	 Full follow through from (a)(ii). Accept timeline or itemised list essentially 1 for each activity in the list of 4 below, , but 2 for the first correct. Allow all time formats and all reasonable embellishments such "time to warm oven", "walk to entrance" etc. providing cooking times correct. Preparation: 11:45 (or 9:45, ambiguity in prep. time) to 12:45 20 cm cakein at 12:45 out at 3:30 25 cm cakein at 12:45 out at 4:30 30 cm cakein at 12:45 out at 6:00 Allow with full credit finishing times back to about 2 pm based on the above. Mark in spirit of above the situation where cakes finish together: 	R2 R3	A1	1 1

Process	Max.	Award on evidence of	R	Α	1
		Prep. 1 or 3 hours (beginning 11:45 or 9:45) seen or implied by			
		timetable then:			
		30 cm cake in at 12:45 out at 6pm			
		25 cm cake in at 2:15 out at 6 pm			
		20 cm cake in at 3:15 out at 6 pm			
		or			
		 Explicitly stated or implied prep. time of 1 hour or 3 hours Three sets of timings (not necessarily correct) imply a ranking in cooking times of 30cm / 25cm / 20cm At least one correct cooking time stated or implied from timetable (2 ³/₄, 3 ³/₄, 5 ¹/₄ hours for 20/25/30 cakes) 			
Part (c)				<u> </u>	
Finding weight of icing sugar needed for top of 25 cm cake.		3: 200 (g) or 2 200 [s 0] [s 0] 4 (see a share set in sec.	R2	A1	
[E]	3	Allow calculation and answers based on "icing sugar + egg white" i.e. 210 g / 420 g / 630 / 630 ÷ 3		A1	
Part (d)					
Calculating ingredients needed to make icing sugar for all three cakes.		2: Specific mention that the 25 cm is the "in-between" sized cake or similar or argument based on possibly naive proportionality or 1: 3 x 25 cm cake clearly used with no	R2	A1	1 2
[F]	4	reason given or unclear/wrong scaling method but correct rank order for the three chosen cake sizes. 1 : 1800 g. to 2 kg of icing sugar			
		1 : 90 to 95 a of eag white			
Checking	2	2: Clear evidence of a checking procedure being applied		A1	A1
		1: Any recognition that answers are appropriate/expected or			
[G]		inappropriate/not expected or no obvious errors (3 or more			
		correct calculation or part calculations)			
		0: Obvious incorrect answers or no evidence of checking or			
		considering appropriateness of answer			
		SR=6	7 R	7 A	6 I