

OXFORD CAMBRIDGE AND RSA EXAMINATIONS LEVEL 1 FUNCTIONAL SKILLS MATHEMATICS

09865

TASK AND ANSWER BOOKLET PRACTICE PAPER 5

TIME: 1 HOUR 30 MINUTES

INSTRUCTIONS																	
Fill in all the boxes below. Make s LETTERS .	sure y	our	pers	sona	l de	tails	are	ente	ered	cor	rectly	y. L	Jse	BL	оск		
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YOU HAVE 1 HOUR AND 30	MINU	JTE	ST	O C	ON	IPLI	ETE	TH	E							/	
THREE TASKS										L						/	
For each task, make sure that you	u:									L						/	/20
• read the questions carefully before starting TASK C							/	720									
• write your answers in this bool	klet									H						/	
• clearly show how your working	g lead	s to	you	r ans	swe	rs										/	
2 marks are available in each ta	sk w	hen	VOI	ısh	ow v	vou	hav	e		L						/	
checked your work.			,			,				ŀ						/	/20
When you have finished, hand thi	s boo	klet	and	l all t	he							Tot	tal		/6	0	
Resource Documents to the supe																	

Ofqual Qualification Reference Number: 500/8910/9

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 - IRONING

RESOURCE DOCUMENT 1

Janine's Ironing Shop

Open Monday to Saturday 9:00am to 5:30pm

These are the prices Janine charges for each item she irons.

Shirts		Linen	
Single cuff	£1.21	Sheet: single	£1.79
Double cuff	£1.36	Sheet: double	£2.77
Silk	£2.64	Sheet: king-size	£3.23
T-shirts	£0.80	Sheet: super-king	£3.58
Sweatshirts	£1.00	Duvet-cover: single	£2.50
Jumpers	£1.00	Duvet-cover: double	£3.18
Polo necks	£1.00	Duvet-cover: king-size	£3.90
		Duvet-cover: super-king	£4.72
Trousers		Pillowcase: plain	£0.72
Smart chinos	£2.13	Pillowcase: frilled	£0.87
Jeans	£1.82	Handkerchief	£0.36
Shorts	£1.41	Tablecloth	£2.05
Ladies Fashion		Other	
Dresses	£3.20	Pyjamas	£2.56
Jackets	£3.70	Nightie	£1.54
Skirts	£2.15	Dressing gown	£3.08
Scarves	£1.05	Boxer shorts	£0.56

These are the times it takes Janine to iron each item.

Item	Time in minutes
Shirt	2 to 4
Dress	5 to 8
Sweat shirt, T-shirt etc	1 to 2
Trousers	2 to 4
Sheet	3 to 5
Duvet-cover	4 to 8
Pillowcase	1 to 2
Other items	1 to 4

A change of bedding is 1 sheet, 1 duvet-cover and 2 pillow cases.

TASK B - CAR EMISSIONS

RESOURCE DOCUMENT 1

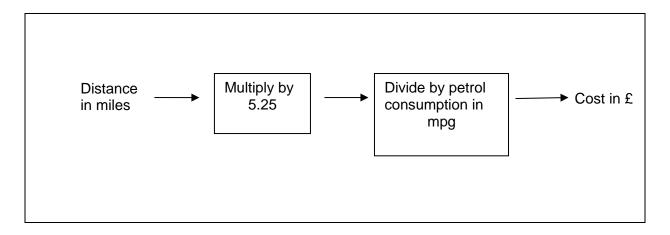
Information about new cars which Liam found on the internet

Make of car	Car tax band	CO₂ emissions in g/km	Engine size in cc	Petrol consumption in mpg
Audi A4	G	164	1798	39.8
Daihatsu Sirion	С	118	998	56.5
Fiat Punto	Е	132	1368	49.6
Ford Fiesta	D	127	1242	51.4
Honda Jazz	D	125	1198	53.3
Kia Picanta	С	114	1086	58.8
Porsche Cayenne	M	263	3598	25.2
Renault Clio	Е	139	1149	47.9
Skoda Yoti	F	149	1197	44.1
Smart Car	В	104	999	62.8
Toyota Yaris	С	118	998	56.5
VW Golf	F	149	1390	44.1

Car tax for twelve months

Car tax band	Cost for twelve months in £
A	0
В	20
С	30
D	90
E	110
F	125
G	155
M	435

How to find the petrol costs of using a car



TASK C – GOLD LEAGUE

RESOURCE DOCUMENT 1

There are twelve races each year in the Gold League. All are 100 metres. Runners who finish in the first 6 positions in each race are awarded points. Runners who finish lower than sixth place get no points.

The points awarded for each position are shown in this table.

Position in Race	Points scored
1	6
2	5
3	4
4	3
5	2
6	1

Results of the first eight 100 metre races

Stadium	Shanghai	Oslo	Rome	Lisbon	Doha	Paris	Monaco	Lausanne
Position								
1	Oban	Ball	Cowell	Daley	Ball	Drake	Preece	Painter
2	Ball	Cowell	Lemar	Simmons	Cowell	Ball	Oban	Ball
3	Cowell	Oban	Colt	Ball	Colt	Cowell	Cowell	Cowell
4	Colt	Calder	Ball	Lewis	Calder	Simmons	Ball	Calder
5	Simmons	Drake	Painter	Grater	Oban	Oban	Colt	Grater
6	Calder	Simmons	Oban	Cowell	Daley	Lemar	Simmons	Oban

TASK C - GOLD LEAGUE

This table shows the total points gained so far after ten races by the top eight runners.

Name	Points so far
Cowell	42
Ball	39
Oban	29
Drake	18
Simmons	17
Grater	12
Daley	10
Painter	8

TASK AND ANSWER PAGES

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

TASK A – IRONING

You will need Task A Resource Document 1

Q1	(a)	For	how many hours each day is Janine's Ironing Shop open?
			(1 mark)
	(b)	(i)	Each week, Mr Poirot sends 7 single cuff shirts to be ironed.
			How much does this cost Mr Poirot?
			(2 marks)
		(ii)	How many minutes could Janine spend ironing Mr Poirot's shirts each week?
			(2 marks)

Lybi	ain your answer.
•	
A ty	(5 m oical customer sends Janine a bag containing a change of bedding, som
A type shirt	
shirt	oical customer sends Janine a bag containing a change of bedding, som s and 3 other items to iron.
shirt	oical customer sends Janine a bag containing a change of bedding, som s and 3 other items to iron.
shirt	oical customer sends Janine a bag containing a change of bedding, som s and 3 other items to iron.
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shirt	oical customer sends Janine a bag containing a change of bedding, som s and 3 other items to iron.
shirt	oical customer sends Janine a bag containing a change of bedding, som s and 3 other items to iron.

(ii)

How much in total would her customers pay her in a day?	
	Examiner use only
(3 marks)	(Q1)
Checking (2 marks)	Examiner use only (Checking)
Total marks	Examiner use only
	(Total)

END OF TASK A

TASK B - CAR EMISSIONS

You will need Task B Resource Document 1



Amy and Liam are talking about car CO_2 emissions. This is the amount of carbon dioxide emitted by a car for every kilometre travelled.

Q2	(a)	(i)	Which car in the table has the highest CO ₂ emissions?	
				(1 mark)
		(ii)	What is the range of the CO ₂ emissions from these cars?	
				(2 marks)



(b) (i) Complete the tables using the information from the Resource Booklet.

Cars with engine size smaller than 1200cc	CO₂ emissions in g/km
Daihatsu	118
Mean value	
Cars with engine size between 1200cc and 1800cc	CO₂ emissions in g/km
Cars with engine size between 1200cc and 1800cc	CO ₂ emissions in g/km
between 1200cc and 1800cc	

(4 marks)

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Mean value

Amy and Liam want to change their car. They drive about 10 000 miles each year.

I would like an Audi



I think we should get a Ford Fiesta.

We will save hundreds of

We will save hundreds of pounds on petrol every year. The car tax is cheaper, too.

Evo			
use			
use	(8 marks)		
use (((8 marks)		
Exa use (((8 marks)		
use ((Exa use			
use (t	(8 marks) Checking (2 marks)		
use (I			
use ((Exa use			

TASK C - GOLD LEAGUE

You will need Task C Resource Document 3

The Gold League is an International Athletics League consisting of twelve 100 metre races.

Q3	(a)	(i)	How many points would a runner have if he came second in the first two races, and fourth in the next two races?
			(2 marks)
		(ii)	Christie says
			I was injured for the first 5 races and couldn't run.
			What is the maximum number of points he could have scored in the season?

(2 marks)

This headline appears in a newspaper:

'Ball now 15 points ahead of Oban after eight races'.

Is this	true? Show how you decide.	
		/ 4
		(4 mar
(i)	Drake says	(4 mar
(i)		(4 mar
(i)	Drake says I won race 9 and race 10	(4 mar
(i)	I won race 9	(4 mar
(I won race 9 and race 10	(4 mar
(I won race 9	(4 maı
(I won race 9 and race 10 Is Drake correct?	(4 mai
(I won race 9 and race 10 Is Drake correct?	(4 mai

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(2 marks)



Who is right, Jane or Gary? Support your answer with evidence.	
	(3 marks

(d) In the twelfth race, double points will be awarded. The eleventh and twelfth race have not been run yet.



Is Oban correct? Support your answer with evidence.	
	Examiner
(5 marks)	use only (Q3)
(o marks)	
Checking (2 marks)	Examiner use only (Checking)
	3,
Total marks	Examiner use only (Total)
	(Total)

END OF TASK C

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OXFORD CAMBRIDGE AND RSA EXAMINATIONS

LEVEL 1 FUNCTIONAL SKILLS MATHEMATICS

PRACTICE PAPER 5

Mark Scheme

The maximum mark is 60

OCR Level 1 Functional Skills Maths Mark Scheme Referencing

Our ref	Coverage and Range
N1	Understand and use whole numbers and understand negative numbers in practical contexts
N2	Add, subtract, multiply and divide whole numbers using a range of strategies
N3	Understand and use equivalences between common fractions, decimals and percentages
N4	Add and subtract decimals up to two decimal places
N5	Solve simple problems involving ratio, where one number is a multiple of the other
N6	Use simple formulae expressed in words for one-or-two-step operations
G1	Solve problems requiring calculation, with common measures, including money, time, length, weight, capacity and temperature
G2	Convert units of measure in the same system
G3	Work out areas and perimeters in practical situations
G4	Construct geometric diagrams, models and shapes
S1	Extract and interpret information from tables, diagrams, charts and graphs
S2	Collect and record discrete data and organise and represent information in different ways
S3	Find mean and range
S4	Use data to assess the likelihood of an outcome

Process Skills/Skill Standards

R = Representing
A = Analysing
I = Interpreting

Representing	Our Ref
Understand practical problems in	R1
familiar and unfamiliar contexts and	
situations, some of which are non-	
routine.	
Identify and obtain necessary	R2
information to tackle the problem	
Select mathematics in an organised	R3
way to find solutions	
Analysing	
Apply mathematics in an organised	A1
way to find solutions to	
straightforward practical problems	
for different purposes.	
Use appropriate checking	A2
procedures at each stage.	
Interpreting	
Interpret and communicate solutions	l1
to practical problems, drawing	
simple conclusions and giving	
explanations.	

FS Maths L1 July 2012 Marking Guidance

Task 1 – Ironing

Part	Process	Award	On evidence of Notes	Star	Skill ndard A	s I
а	Open hours	1	1 8.5 (hours) oe 8 hours 30 minutes e Condone 8.3(0)	R2		
b(i)	Cost of 7 shirts	2	2 £8.47 oe or 1 8.47 or 847 (no units) or £8.47p or (£)1.21 seen Penalise money conduction of £p once throughtask	D-2	A 1	
(ii)	Minutes ironing	2	2 Any time from 14 to 28 (minutes) or If units must be minuted 1 2 to 4 seen	tes R1		I1
C	Earnings from ironing duvet-covers	5	 Use of any time from 4 to 8 to iron a duvet Correct method to find number ironed per hour or 15, 12, 10, 8.5(714), 8 or 7.5 One duvet cost x their number ironed Correct answer from their figures or A correct total price for an identified duvet type x 15, 12,) Correct units including money conventions or Some annotation or Comment about most/average/minimum consistent with their assumptions Use of any time from 4 to 8 to iron a duvet 60 ÷ their time oe. 15 implies first mark Accept rounded cost throughout Check using calculate award 4 marks if correct units including money conventions or Some annotation or Comment about most/average/minimum consistent with their assumptions 	or and rect.	A 1	I1 I1

Part	Process	Award	On evidence of	Notes		Skill andard A	ds I
d(i)	Number of bags in a day	5	 Correct times (or range of times) for one of each of Duvet, sheet, two pillowcases, some shirts, and each "other" or Correct times for THREE of Duvet, sheet, pillowcase, shirt, other and Attempt total of <i>their</i> times T 	If "bedding" stated then time must be between 9 and 17 minutes and counts as 3 times.			
			 A correct method for number of bags in a day using T (answer may be seen in part (ii)) Round DOWN number of bags or Well ordered working or Justify less time than 510 or Any sensible comment related to time taken to iron, taking breaks, supply of laundry 	Treat 8 to 8½ hours as a day	R2	A1 A1	1 1
(ii)	Daily earnings	3	 Three correct costs for items on their list Total of their costs for one bag correct (B) B x their number of bags from d(i) correct condone truncated If 0 scored for second or third marks 1 for Attempt total cost of one bag of ironing 	Allow rounded figures Use spreadsheet Penalise money convention of £p once throughout task	R2	A 1	I1

Part	Process	Award	On evidence of	Notes	Skill Standards R A I		; 	
	Checking	2	 A clear check of a calculation or Statement that an answer is reasonable, or 3 correct calculations throughout task or Fewer than 3 correct calculations or answers and no checks 			A:		
	Total	20		Totals	7	7	1	6

Possible evidence

(c)

Time	Number in hour n = (60 / time)	Single Earnings n x 2.50	Double Earnings n x 3.23	King Earnings n x 3.58	Super-king Earnings n x 4.72	Average Earnings n x 3.58
4	15.0	£37.50	£48.45	£53.70	£70.80	£53.70
5	12.0	£30.00	£38.76	£42.96	£56.64	£42.96
6	10.0	£25.00	£32.30	£35.80	£47.20	£35.80
7	8.6	£21.43	£27.69	£30.69	£40.59	£30.69
8	7.5	£18.75	£24.23	£26.85	£35.40	£26.85

(d)

	Individual	time			Total time			
Items	Minimum					Minimum	Maximum	
Sheet	3	4	5			14	33	
Duvet	4	5	6	7	8			
Pillow case x 2	1	2						
Shirts	2	3	4					
Others x 3	1	2	3	4				

Task 2 - Car Emissions

Part	Process	Award		On evidence of	Notes	Skill Standards R A I				
a(i)	Identify highest emission car	1	1	Porsche or Cayenne oe	1 for 263 or any other unequivocal indication	R2				
a(ii)	Range of emissions	2	1	or 263 and 104 seen 1200 cc table 5 from Jazz , Picanta , Clio , Yoti, Smart, Yaris Ignore wrong or confused units In both tables, count a						
b(i)	Complete tables with car emission values and calculate means	5	1		In both tables, count a wrong inclusion as an error so 4 right and 1 wrong inclusion = 3 right. (-1 for each wrong inclusion)	R1 R2	A 1	111		
			3 2 1	Means Both of their means correct or 123 to 124 and 143 or 167 or One of their means correct or 123 to 124 or 143 or 167 or Two correct totals	Check means using their figures in table	R3				

Part	Process	Award	On evidence of	Notes	Skill Standards R A I
b(ii)	Make sensible comparisons between two groups	2	Award up to 2 marks from Identify Amy and Mean for smaller cars less than mean for larger cars or Bigger cars produce, on average, 19 or 42 (g/km) more or converse. Most cars in the first table have lower emissions than those in second table. Porsche Cayenne (much) larger engine and (much) higher emissions. Identify Liam and VW Golf and Skoda Yoti both have emissions of 149 but are in different size groups (tables)	Interpret their comments sensitively. Values do not need to be quoted. Follow through from their means and tabulated values. Do not reward same statement twice. Reward any other sensible comment but not reiterating given ones.	211
С	Calculations to show that driving a Ford (Fiesta) will cost less than an Audi (A4) Use function generator for cost of driving 10,000 miles and compare road tax.	8	Audi 3 (£)1474(.10) or (£)1319(.10) and (£)155 or 2 (£)1319(.10) or 1 (£)155 or 39.8 Fiesta 3 (£)1111.(40) or (£)1021.(40) and (£)90 or 2 (£)1021.40 or 1 (£)90 or 51.4 and 1 Clear calculations, set out so that processes may be seen Ford is cheaper because (Award 1 from) Car tax is (£)65 cheaper or 1 Fuel saving around their (£)298 or Total saving around their (£)363 per year.	Condone any truncation Award marks for any other mileage used. (Check) Award marks for any other mileage used. (Check) Ft their cheapest car ft their fuel calculations	R1 2A1 3I1

Part	Process	Award	On evidence of	Notes	Skill Standards R A I
	Checking	2	 A clear check of a calculation or Statement that an answer is reasonable, or 3 correct calculations throughout task or Fewer than 3 correct calculations or answers and no checks 		2A2
	TOTAL	20		Totals	7 6 7

Expected solution and evidence

(c) Tables to be completed

Cars with engines below 1200cc	Emission of CO ₂ in g/km				
Daihatsu Sirion	118				
Honda Jazz	125				
Kia Picanta	114				
Renault Clio	139				
Smart Car	104				
Skoda Yoti	149				
Toyota Yaris	118				
Mean	867 ÷ 7 = 123.9				

Cars with engines between 1200-1800cc	Emission of CO ₂ in g/km				
Fiat Punto	132				
Audi A4	164				
Ford Fiesta	127				
VW Golf	149				
Mean	572÷4 = 143				

Mean with Porsche may be used $=835 \div 5 = 167$

Task 3 –Gold League

Part	Process	Award	On evidence of	Notes		I Stan	dards I
a(i)	Find the correct number of points for given positions	2	 16 or 10 and 6 or 5 + 5 or 10 or 3 + 3 or 6 or 3 + 5 or 8 seen 		R2	A 1	
a(ii)	Find maximum number of points for last 7 races	2	2 42 or1 7 or 6 seen		R1	A 1	
b	Determine whether statement is true that Ball is 15 points ahead of Oban	4	 37 AND 21 seen or 16 (difference) or 37 OR 21 seen or 19 (Ball) AND 28 (Oban) or 9 (difference) or Indication of finding some places or points scored And "Correct" and quantified comparison with statement (15 points) based on their evidence 	Ball 37 Oban 21 of for Ball 39, Oban 29 etc 9 is from PLACES 9 and 28 are sums of PLACES Eg (Wrong,) it is 16, not 15 or "Ball is further ahead than that" of for "Ball is ahead"	R1	A1	I1 I1
c(i)	Determines if Drake scored any points in races 9 or 10	2	 Drake is wrong and includes 8 or 12 or 18 or 20, as required or Comment that may include 8 or 12 or 18 or 20 but is inconclusive or 8 points (only in the first 8 races) or (gain of) 12 points 	Eg. Drake can't have won both races as he would have 20 points and he only has 18 gained 12 points and this would put him on 20 Must be 8 points and not 8 races	R2		I1
c(ii)	Interprets how Grater may have scored 6 points	3	 (Grater scores) 8 (points in races) 9 and 10 or (Grater scores) 4 (points in the) first 8 races or (Grater scores) 12 – their 4 (points in races) 9 and 10 And Gary AND one example of how Grater may have scored their 8 points that does not include first place. 	Or "last two" (races) Accept 2 + 2 Or "last two" (races) Eg 2 nd = 5 AND 4 th = 3 Must be clear it is points they are considering NOT places.		A 1	I1 I1

Part	Process	Award		On evidence of	Notes		Stand	
(d)	Determine whether Oban can still win the Gold League.	5	3	(Oban) 47 to 43 points AND he can win or EXTRA points total 14 to 18 AND he can win or	He can score 18 points and have more than Cowell			
			2	(Oban) 47 to 43 points or EXTRA points total 14 to 18 OR Attempt (EXTRA) points total for Oban based on 4, 5, 6 or 8, 10, 12 points AND "correct" statement based on <i>their</i> total or	Eg 29 + 6 + 6 = 41 or 12 + 12 = 24			
			1	Attempt (EXTRA) points total for Oban based on 4, 5 or 6 and 8, 10 and 12 points or an inconclusive statement based on finishing first	He could finish first and win			
			1	And State clearly the POSITIONS that Oban must finish in to win the Gold League. (May be implied by points added)	4 - 14 00 4 - 10 00	R2 R3	A 1	11 11
				And	1 and 1 OR 1 and 2 OR 1 and 3 OR 2 and 1 OR 2 and 1 OR 3 and 1			
			1	State correctly ONE condition on Cowell or Ball that will allow Oban to win with <i>their</i> points for Oban. (Need not be a maximum case.)	Eg Cowell must not come 1 st to 6 th (NB Cowell must not win is wrong) or Ball can only come 5 th and 6 th Condone loose but true statements such as "Cowell must come last".			
	Checking	2	2	A clear check of a calculation or				
			1	Statement that an answer is reasonable, or 3 correct calculations throughout task or Fewer than 3 correct calculations or answers and no checks			A2 A2	
	Total	20	_		Total	6	7	7

Results of the first eight 100 metre races

	lium Shang ition	hai	Oslo	R	Rome	L	Lisbon		oha Paris		Mona	CO	Lausanne			
1	Oban	6	Ball	6	Cowell	6	Daley	6	Ball	6	Drake	6	Preece	6	Painter	6
2	Ball	5	Cowell	5	Lemar	5	Simmons	5	Cowell	5	Ball	5	Oban	5	Ball	5
3	Cowell	4	Oban	4	Colt	4	Ball	4	Colt	4	Cowell	4	Cowell	4	Cowell	4
4	Colt	3	Calder	3	Ball	3	Lewis	3	Calder	3	Simmons	3	Ball	3	Calder	3
5	Simmons	2	Drake	2	Painter	2	Grater	2	Oban	2	Oban	2	Colt	2	Grater	2
6	Calder	1	Simmons	1	Oban	1	Cowell	1	Daley	1	Lemar	1	Simmons	1	Oban	1

Points after 8 races

Ball	5+6+3+4+6+5+3+5	37
Cowell		33
Oban	6+4+1+0+2+2+5+1	21
Drake	0 + 2 + 0 + 0 + 0 + 6 + 0 + 0	8
Grater	0+0+0+2+0+0+0+2	4

		Race 11		Rac	e 12	Possible points totals after 12 races						
Points 1 - 8	Place	Points	Total	Place	Points	Win in 1st	2nd in 1st	3rd in 1st	4th in 1st	5th in 1st	6th in 1st	
29	1	6	35	1	12	47	46	45	44	43	42	
	2	5	34	2	10	45	44	43	42	41	40	
	3	4	33	3	8	43	42	41	40	39	38	
	4	3	32	4	6	41	40	39	38	37	36	
	5	2	31	5	4	39	38	37	36	35	34	
	6	1	30	6	2	37	36	35	34	33	32	