

OXFORD CAMBRIDGE AND RSA EXAMINATIONS LEVEL 2 FUNCTIONAL SKILLS MATHEMATICS

09866

TASK AND ANSWER BOOKLET PRACTICE PAPER 6

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]						FO	R E	XAN	IINE	RU	JSE		
Your OCR candidate number]						ONLY				
At the beginning of this booklet yo		ll fir	l d t	oar				<u> </u>	J			ຊຸມຍະ N		n	Ma	ark	Тс	otal	
Documents. You will need to refe								<i>.</i>				TASK A							
complete the tasks.																/			
You will also need:																/			
 a pen with black ink 																/			
 a calculator 																/		/20	
• a ruler														TAS	K B	}			
																/			
YOU HAVE 1 HOUR AND 30	MIN	UT	ES	то	CC	OMF	PLE	TE	TH	IE						/			
THREE TASKS																/			
For each task, make sure that you	ı:															/		/20	
 read the questions carefully before starting 										TAS	K C	;							
write your answers in this booklet									/										
 clearly show how your working 	lead	ds t	o yo	oura	ansv	vers	5									/			
2 marks are available in each ta	sk v	vhe	n y	ou s	sho	w v	ou ł	nave	e							/			
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

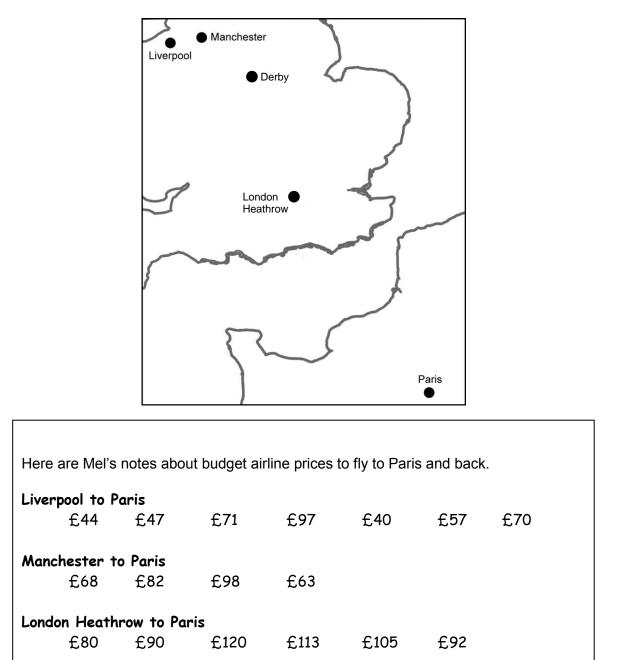
/60

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.

RESOURCE DOCUMENT 1



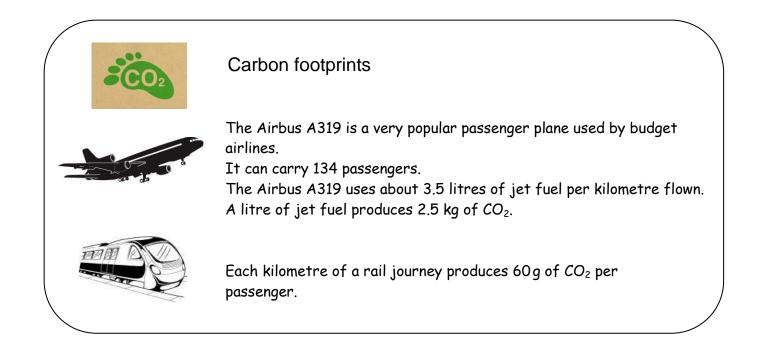
Trains from Derby to Liverpool, Manchester and London airports

Derby to Liverpool airport Trains every hour, takes about 2½ hours, 1 change, off-peak return £43.30

Derby to London Heathrow airport

Two every hour, takes about 3 hours, 2 changes, off-peak return £69.00

TASK A – TRAINS AND PLANES RESOURCE DOCUMENT 2



Rail distances (in km) from Derby to

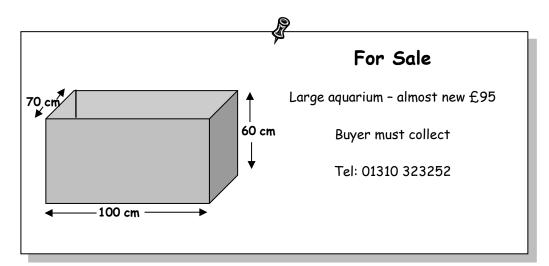


Manchester Liverpool London Heathrow 130 139 243



TASK B – RAINBOW FISH

RESOURCE DOCUMENT 1



Here is a page from Callum's diary.

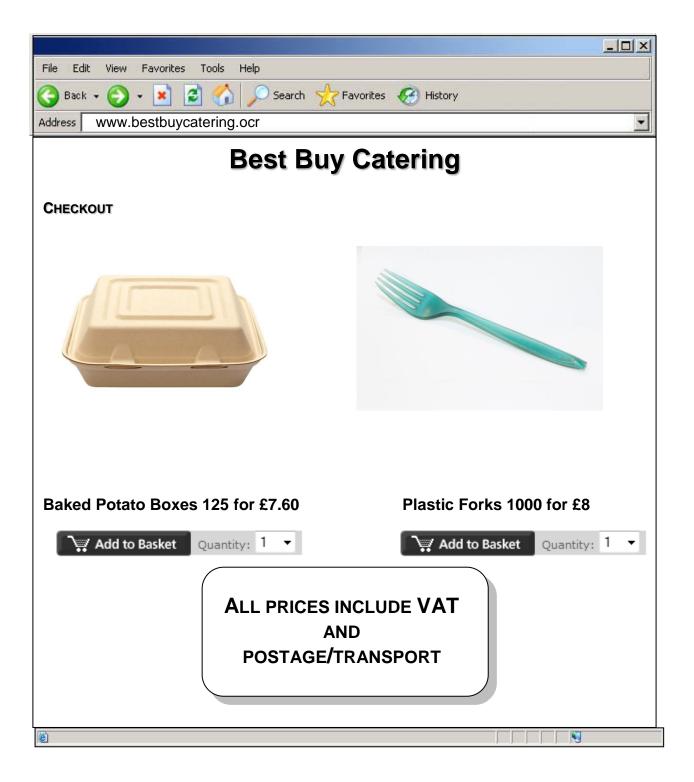
We	ights and Measures (co	ont.)						
1 pint 1 gallon	= 8 pints	≈ 0.568 litres ≈ 4.55 litres						
1 ton		≈ 1016 kilograms						
1 gallon of water we	1 gallon of water weighs 8.34 pounds							
1 litre 1 kilogram	≈ 1.76 pints	≈ 0.220 gallons ≈ 2.20 pounds						
1 litre of water weig	1 litre of water weighs 1 kilogram							
1000 ml is 1 litre 1000 cm ³ is 1 litre								
NOTE: ≈ is	NOTE: \approx is the symbol for approximately equal to							

These are the lengths of adult rainbow fish owned by people in the local
Aquatic Fish Club. (All the lengths are in cm)4108101097681598

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TASK C – BAKED POTATOES

RESOURCE DOCUMENT 1



TASK AND ANSWER PAGES

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

TASK A – TRAINS AND PLANES

You will need Task A Resource Document 1

Mel lives in Derby. She wants to visit a friend in Paris.

She looks at budget airlines on the internet. Mel chooses three possible airports to fly from. These are Liverpool, Manchester and London Heathrow.



She jots down the prices of return fares on the dates she wants.

Q1 (a) (i) What is the cheapest flight to Paris that Mel has found?

(1 mark)

(ii) On average which airport is the cheapest to fly from? Show how you have worked out your answer.

(4 marks)

Mel has to travel from Derby to the airport she chooses.

(b) Which airport would you recommend she uses? Give the reasons for your choice.



(4 marks)

Mel will fly in an Airbus A319. She is worried about her carbon footprint.

(c) (i) How much CO₂ per kilometre does an Airbus A319 produce per person?
 Write down any assumptions you make.

(5 marks)

(ii) What is Mel's total carbon footprint for her **one way** trip from Derby to Paris?

Show your working and any assumptions you make.

 Examiner

 use only

 (Q1)

 (Q1)

 Examiner

 Use only

 (Checking (2 marks))

 Examiner

 Use only

 (Checking)

 Use only

 (Checking)

 Use only

 (Checking)

 (Checking)

 (Checking)

 (Checking)

 (Checking)

 (Checking)

 (Total marks)

 Examiner

 Use only

 (Total)

END OF TASK A

TASK B – RAINBOW FISH

You will need Task B Resource Document 1

Callum wants to buy a new aquarium to breed tropical rainbow fish. He sees a For Sale card in the local supermarket.

Callum's guide to keeping fish states: "before adding fish - fill your aquarium with water until the level is 2 cm below the top of the sides"

Q2	(a)	(i)	Calculate the volume of water in this aquarium when it is ready for the
			fish to be added.

	(2 marks
(ii)	Calculate the weight of the water in the aquarium.
	(1 mark
Callu	um's friend Daljit says
	A full aquarium that size will have at
	least half a ton of water in it.
(iii)	Is Daljit correct?
	Support your answer with calculations.

(b) Callum needs to work out how many rainbow fish he can put in the aquarium. If there are too many, the fish may fight or catch diseases.

He looks in some books and finds these two rules:

HOW TO FIND THE SAFE TOTAL LENGTH OF FISH TO KEEP IN AN AQUARIUM

Rule 1 - **Surface area rule –**1 cm length of fish for every 12 cm² of aquarium water surface area (the surface area is the area of water in contact with the air)

Rule 2 - Volume rule - 1 cm length of fish for every 1.8 litres of aquarium water

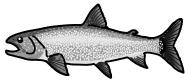
The answer to the calculation for each rule gives the total length of all the fish the aquarium will hold.

Callum uses the rule that gives the smaller safe total length of fish for this aquarium. Show which rule he should choose.

(6 marks)

(c) Callum will buy young rainbow fish but there must be enough space for them when they become adults.

He phones some people in the local Aquatic Fish Club, who tell him the lengths of some of their adult rainbow fish.



They give him another rule, rule 3, for working out the number of fish he can keep.

Number of fish = $\frac{\text{surface area of water}}{40 \text{ x average length of fish}}$

(i) How many fish will Callum be able to keep in his aquarium using rule 3?

Explain how you arrive at your answer. Show your calculations and write down any assumptions you make.

(5 marks)

(ii) Callum will use the rule that gives the smallest number of fish for this aquarium.Which of the three rules gives the smallest number of fish?

	Examiner use only (Q2)
(2 marks)	
Checking (2 marks)	Examiner use only (Checking
Total marks	Examine use only (Total)

END OF TASK B

TASK C – BAKED POTATOES

You will need Task C Resource Document 1

Amy saw this in a cafe.



Amy's aunt Emma runs a sandwich shop. She agrees to let Amy have a space in her shop to sell baked potatoes.

Before Amy starts she works out her costs and the possible number of customers.

Emma's shop is open 5 days a week serving, on average, 800 customers per day.

Q3 (a) Amy asks some of the shop's customers if they would buy baked potatoes. Of the 40 people she asked 11 said they would.

Estimate the number of customers per day Amy might expect to buy a baked potato.

Explain how you arrived at your answer.

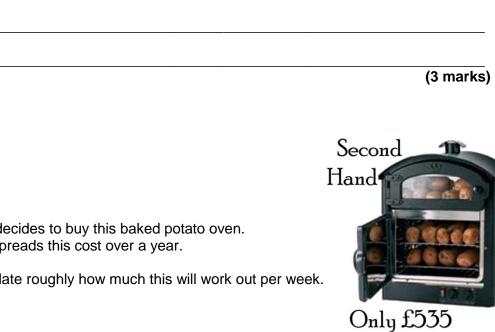
This is the figure Amy will use in her plans.

(3 marks)

Baking potatoes are sold in 56 kg sacks that cost about £45 each. (b) Each potato weighs about 250 g.

Make a rough estimate of how much it will cost Amy to buy a week's supply of potatoes.

Show your working clearly and write down any assumptions you make.



(c) Amy decides to buy this baked potato oven. She spreads this cost over a year.

Calculate roughly how much this will work out per week.

(2 marks)

Amy will pay Emma £20 per week for electricity, heating and insurance.

Fillings for baked potatoes will cost about 20p per potato.

Amy has now to work out her total costs.

_ I'll need boxes to put the potatoes in, a fork for each potato, filling and finally some potatoes! Plus there's the weekly cost of the oven and I have to pay Emma £20 a week. \bigcirc (d) Work out Amy's total costs for a week. Show all your working and any assumptions you might make.

(8 marks)

(e) Amy plans to sell the baked potatoes with fillings for £2.50 each.

How much profit or loss will she expect to make in a week?

	Examiner use only (Q3)
(2 marks)	()
	Examiner use only Checking)
	Examiner use only (Total)

END OF TASK C



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OXFORD CAMBRIDGE AND RSA EXAMINATIONS

LEVEL 2 FUNCTIONAL SKILLS MATHEMATICS

PRACTICE PAPER 6

Mark Scheme

The maximum mark is 60

OCR Level 2 Functional Skills Maths Referencing for Coverage and Range

^ <i>i</i>	
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	R1
and unfamiliar contexts and situations.	
Identify the situation or problems and identify the	R2
mathematical methods needed to solve them.	
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	A2
effectiveness at each stage.	
Interpreting	
Interpret and communicate solutions to multistage	1
practical problems in familiar and unfamiliar contexts and	
situations.	
Draw conclusions and provide mathematical	12
justifications	

N – Number A – Algebra G – Geometry S - Statistics

FS Maths L2 December 2012 Marking Guidance

Task 1 – Trains and Planes

Process	Max.	Award on evidence of	R	Α	1
Part (a)					
i) Selecting cheapest flight [A]	1	£40			11
ii) Finding the cheapest airport on average. [B]	4	3: 2 for first correct mean, median or MMM 1 for second (matching) Airport Mean Median MMM [▲] <u>Liverpool</u> £61.86 £57 £68.50 <u>Manchester</u> £77.75 £75 £80.50 <u>Heathrow</u> £100 £98.50 £100 [▲] Mean of Max. and Min. and	R1 R3	A1	11
		 Specific indication of candidates' cheapest based on their evidence (at least two averages). 			
Part (b)			D 1		
Selecting best route for Mel using given data [C]	4	(Maximum of 3 for numerical evidence, then 1 for using it) Cost 1: each correct cell (may be implied) Airport Flight (£) Rail (£) Total (£) Liverpool 61.86/57/68.50 43.30 £100 -112 Manchester 77.75 /15 /110.50 37.50 £112 – 148	R1	A1 A1	12
		Heathrow100 /98.50/10069.00£168 - 169Rail journey and possible flight time½ :each correct cell (round up at final count for part (b))Airporttime (hours)frequencyLiverpool2 ½every hour630170Manchester2every hour605140			

Process	Max.	Award on evidence of	R	Α	1
		Heathrow 3 twice an hour 320 260 For rail journey and flight times etc. award 1 for at least one correct: "Nearest/ quickest/most often/least stops" etc. without numerical support. Other plausible reasons based in data given award as rail journey time etc. and 1: Decision based on candidates' own figures for the above. Must be supported by quantitive reason and ideally but not necessarily compared with other two airports, must have numerical data for relevant airport (but see above for journey times etc. e.g. 1 +1 for "Manchester is best as has most frequent trains" or equivalent if correct). Or SC1: Statement citing answer to part (a) but not giving any numerical evidence.			
Part (c)					
 (i) Calculating carbon footprint per person (per km) for flight (<i>F</i>). [D] 	5	 4: 0.065 or 1: x 2.5 and 1: x 3.5 1: ÷ 134 2 for answers of (5278 to 5279) or (5478 to 5479) or (3083 to 3084). le total footprint for their chosen flight 	R1	A1 A1	1 2
		1: statement of assumption that plane is full (or otherwise)			

Proc	Cess	Max.	Award on evidence of	R	Α	1
(ii)	Calculating the total carbon footprint based on choice of route. [E]	4	1For each correct [bracketed expression], or2For each <correct result="">. or4For {correct answer} seenfollow through on "<i>F</i>" ·.Manchester [130 x 60] + [606 x <i>F</i>] or <7800 or 7.8> + < 606 x F> = {47.19}orLiverpool [139 x 60] + [629 x <i>F</i>] or <8340 or 8.3> + <629 x <i>F</i>> = {49.19}orHeathrow [243 x 60] + [354 x <i>F</i>] or <14580 or 14.6> + <354 x <i>F</i>> = {37.6}SC1: If zero scored above allow 1 for the addition of the two components of the "footprint".Some partial credit for aero footprint may be found in part(i)</br></correct>	R2 R3	A1	11
	Checking [F]	2	 2: any comment indicating consideration of order (eg distances) or checking by using two different approaches 1: no evidence of careless errors or inaccuracy (based on at least 3 explicit, relevant calculations or equivalent). 	6 R	A2 A2 8 A	61

Task 2 – Rainbow Fish

Process	Award	on evidence of	Specification Criteria
Part (a) mark in spirit if alternative			
methods			
(i) Calculating volume of aquarium (<i>V</i>) [A]		2 : figs 406 (unit counts in (ii)) or	
	2	1 : 58 x 100 x 70 seen	R2
		SC1 :70 × 60 × 100 = 420000	
(ii) Calculating mass of water in	_	1: "V' kg (must show correct units)	
the aquarium <i>M</i> kg	1	= 406 kg or 406000g	R1
[B]		Allow follow through if this fits stated units in (i)	
		or by doubling M (C1) and stating less than 1000 (D1)	
(iii) Calculating half a ton in kg (Q)	1	1016 ÷ 2 1: = 508 (kg)	12
[C]	I		
Comparing "Q" and "M"	1	1: Statement consistent (with " <i>M</i> " and "Q") e.g. Daljit is wrong with figures quoted	
[D] Part (b)			
Calculating area of water surface		70 x 100	A1
(S)	1	1: =7000 (cm ²)	
[E]			
Comparing the two fish stocking			
rules (total lengths)	2	1: " <i>V</i> " ÷ 1.8	A1 I1
Volume rule (<i>LV</i>):		1: <i>LV</i> = "225.5" (cm) 2 www	
		Accept 225 or 226	
Quinte de mula (1 Q):	~	Full follow through from "V"	
Surface rule (<i>LS</i>):	2	1 : "S"÷12	A1 I1

Process	Award	on evidence of	Specification Criteria	
Comparing the above figures [F] Part (a)(i)	1	 LS ="583.3" (cm) 2 www Accept 583 or 584 Full follow through from "S" Correct comparison given stated "LV" and "LS" 		12
Part (c)(i)		• • • • • • • • • • • • • • • • • • •		
Finding maximum stock levels of fish. Selecting average fish length (<i>L</i>)		 3: Clear intention to calculate or find median and figure of 8 selected . or 1: some recognition that "66" is a rogue value 2: mean calculated with 66, evaluated 		
[G]	3	2: mean calculated with 66 excluded $\left(\frac{140}{17}\right)$.=8.24 1: some recognition that "66" is a rogue value 2: mean calculated with 66 included $\left(\frac{206}{18}\right) = 11.4$ or 1: A clear but incorrect attempt at mean/median with or without 66 or 1: Obvious choice, but no justification given, of 8 to 11 or 66 (the largest) or SC2: 66 chosen with a logical reason	R3 R3	A1

Process	Award	on evidence of	Specification Criteria
Calculating number of fish from Callum's formula (<i>N</i>) [H]	2	Allow full follow (7000) through for "surface area" calculated as 5sides (27400) or 5 sides + surface area of water (34400) (1 for substitution + 1 for correct answer (decimal or integer up or down) 2: =21.88 or 21 or 22 using median = 8 or 2: = 21.24 or 21 or 22 using mean = 8.24 or 2: = 15.35 or 15 or 16 using mean = 11.4	A1 A1
Part (c)(ii) Finding the number of fish from the two previously given rules (giving the total fish lengths) [I]	1	As a minimum "their answer to (c) for the minimum total length" divided "mean length" seen	R2 1
Comparing the two fish numbers with that derived from Callum's formula [J]	1	Correct statement from candidate's calculations or stated values above.	
Checking calculations or considering feasibility/viability of answers. [K]	2	 Clear evidence of a checking procedure being carried out at any appropriate point in the task. Clear recognition and relevant statement at any appropriate point that a particular answer to a calculation is appropriate/expected or inappropriate/not expected or 	A2

Process	Award	on evidence of	Specifica	ation Crite	ria	
		 no idiosyncratic part answers in the course of the task. 0: No evidence of checking or consideration of reasonableness of answers – including bland statements to the effect that calculations were checked without any relevant evidence. 				
TOTAL	20		7	7	6	

Task 3 – Baked Potatoes

Process	Award	On evidence of
Section (a)		
Estimating number of possible sales of baked potatoes (<i>N</i>)	3	3: 200 or 220 customers wwwor
[A]		1: Fraction $\frac{1}{4}$ or $\frac{11}{40}$ or equivalent (e.g. 0.25, 0.275) seen 1: Attempt to calculate $\frac{1}{4}$ or $\frac{11}{40}$ of 800 or if zero scored 1: partially successful attempted to use ratio as evidenced by, for example, 800 ÷ 51 or 800 ÷ 40 seen in working
Section (b)		
Estimating weekly cost of potatoes [B]	3	 Allow full follow through from "N" 3: 5 x £45 = (£)225 or figs 56 ÷ 250 seen or implied to give number of sacks per day. 1: "their sacks per day" – from above x 45 (or independent) or 2: Statement to effect that she needs about 1 sack a day supported by some working, but only 1 if merely stated or 7 x £45 = 315 or

Process	Award	On evidence of
		Working from a whole week as the unit:- Explicitly seen or implied from working. 2: $\frac{\begin{bmatrix} "N" \times 250 \times 5 \end{bmatrix}}{\begin{bmatrix} 1000 \end{bmatrix}} \div \begin{bmatrix} 56 \end{bmatrix}$ (1 for each [expression] maximum of 2. effectively "N" x 0.0223) 1: Answer to above (possibly implied) x £45 and rounded up
Section (c)		
Estimating effective weekly cost of oven (<i>W</i>) [C]	2	 2: (£) 10.20 to (£) 11.20 or £10 or 1: 535 ÷ 48/52 seen or implied or 535 ÷ "stated number of weeks in a year"
Section (d)		The total number of potatoes sold in a week may have to be inferred from working above. Boxes and forks may be costed as per unit allow this.
Calculating Amy's weekly costs	8	(Assuming " <i>N</i> " x 5 potatoes/customers a week) Allow full follow through* – but must be consistent – mark to candidate's advantage.* this includes using daily rather than weekly prices if consistently used), These figures are for 1000 sales (see also table at end) 1 for each: Boxes £60.80
		Forks £8 Filling £200 Potatoes £220 to £250 – can ft from (b) Oven £10 - £11 Heating etc. £20 1: For recognition that 6 components are necessary (but calculations not necessary correct)

Process	Award	On evidence of
		 "By-eye" correct total £450 - £550 or follow through on candidates' figures but must be at least three items of the above six.
Section (e)		
Calculating Amy's profit or loss	2	1: "weekly sales (" $N \times 5$ ") \times £2.50
[E]		1: Comparison of "total weekly costs" with "weekly sales revenue" but loss must be stated as such or given as a negative number.
Checking [F]	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
		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.
		0: No evidence of checking or consideration of reasonableness of answers – including bland statements to the effect that calculations were checked without any relevant evidence.

N potatoes	per week	bags per week	Cost (not rounded)	(£) Cost rounded	(£) Cost rounded	Forks	Boxes	Fillings	heating	lo cooker	hi cooker	lo costs	hi costs	lo profit	hi profit
per day				down	up										
250	1250	5.58	251.12	225.00	270.00	16.00	76.00	250.00	20.00	10.29	11.15	581.29	643.15	2,481.85	2,543.71
240	1200	5.36	241.07	225.00	270.00	16.00	76.00	240.00	20.00	10.29	11.15	571.29	633.15	2,366.85	2,428.71
230	1150	5.13	231.03	225.00	270.00	16.00	76.00	230.00	20.00	10.29	11.15	561.29	623.15	2,251.85	2,313.71
220	1100	4.91	220.98	180.00	225.00	16.00	68.40	220.00	20.00	10.29	11.15	498.69	560.55	2,189.45	2,251.31
210	1050	4.69	210.94	180.00	225.00	16.00	68.40	210.00	20.00	10.29	11.15	488.69	550.55	2,074.45	2,136.31
200	1000	4.46	200.89	180.00	225.00	8.00	60.80	200.00	20.00	10.29	11.15	471.09	524.95	1,975.05	2,028.91
190	950	4.24	190.85	180.00	225.00	8.00	60.80	190.00	20.00	10.29	11.15	461.09	514.95	1,860.05	1,913.91
180	900	4.02	180.80	180.00	225.00	8.00	60.80	180.00	20.00	10.29	11.15	451.09	504.95	1,745.05	1,798.91
170	850	3.79	170.76	135.00	180.00	8.00	53.20	170.00	20.00	10.29	11.15	388.49	442.35	1,682.65	1,736.51
160	800	3.57	160.71	135.00	180.00	8.00	53.20	160.00	20.00	10.29	11.15	378.49	432.35	1,567.65	1,621.51
150	750	3.35	150.67	135.00	180.00	8.00	45.60	150.00	20.00	10.29	11.15	360.89	414.75	1,460.25	1,514.11
140	700	3.13	140.63	135.00	180.00	8.00	45.60	140.00	20.00	10.29	11.15	350.89	404.75	1,345.25	1,399.11
130	650	2.90	130.58	90.00	135.00	8.00	45.60	130.00	20.00	10.29	11.15	295.89	349.75	1,275.25	1,329.11
120	600	2.68	120.54	90.00	135.00	8.00	38.00	120.00	20.00	10.29	11.15	278.29	332.15	1,167.85	1,221.71
110	550	2.46	110.49	90.00	135.00	8.00	38.00	110.00	20.00	10.29	11.15	268.29	322.15	1,052.85	1,106.71
100	500	2.23	100.45	90.00	135.00	8.00	30.40	100.00	20.00	10.29	11.15	250.69	304.55	945.45	999.31