AQA

Please write	clearly	in block	capitals
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Candidate number

Forename(s)

Surname

Centre number

Candidate signature

I declare this is my own work.

Functional Skills Level 1 MATHEMATICS

Paper 1 Non-Calculator

Materials

For this paper you must have:mathematical instruments.

You must not use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- · Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.
- · State the units of your answer where appropriate.

Information

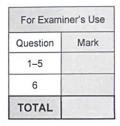
- The marks for questions are shown in brackets.
- The maximum mark for this paper is 20.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

In all calculations, show clearly how you work out your answer.



Time allowed: 30 minutes



8361/1 QAN 603/4257/2

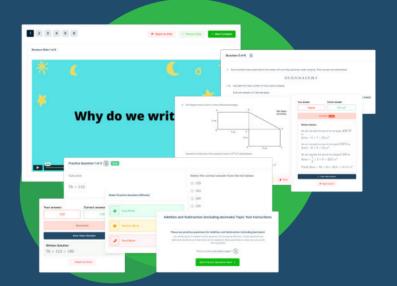
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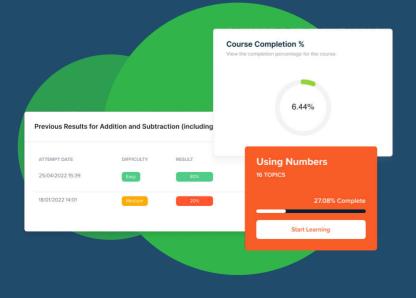
FUNCTIONAL SKILLS ONLINE COURSES

tional Skills English Initial Assessment	assessmen curre From this dia	r results from this initial t, we estimate you are ntly at Level 1.5. gnostic, we think one of ng courses would be suitable:
🖷 13 Questions 📲 No Timo Linit		ional Skills 5 Level 2
Start Initial Assessment	≡ 35 Topic Count	© 105 Tests
Functional Skills Maths Initial Assessmen	it is	1 43 Mock Exams
S Questions No Time Limit Mixed Calculator		Enrol Now
Start Initial Assessment	Pi	ck my own

- Your answers are analysed to determine your Current Level
- Suggested courses for you to enrol on based on your calculated level
- Always know the level you are currently working at
- Determine when you are ready to sit your exam



- Explainer videos on every topic
- Quick-fire style mutiple choice questions
- Test your knowledge with exam-style questions
- Written solutions for all questions

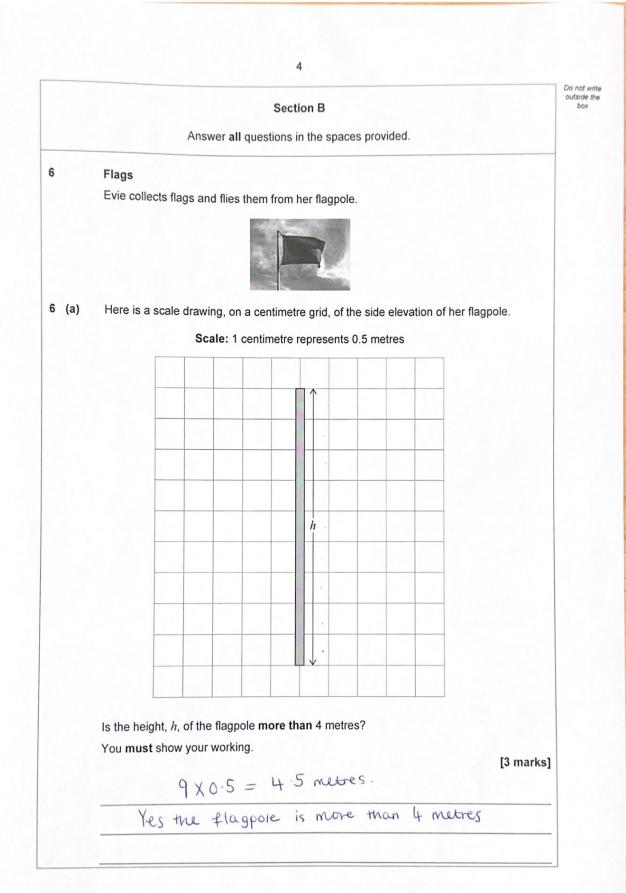


- See your progress through as you progress through each topic area
- Get your average scores for practice questions, topic tests and mock exams
- View all practice question, topic test and mock exam attempts over time
- View historical attempts to analyse your progress over time

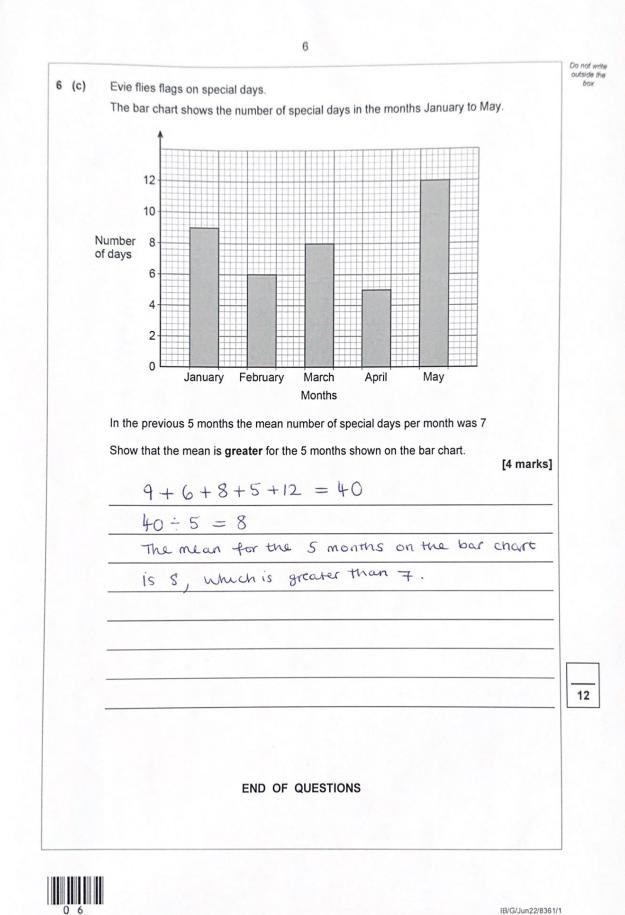
Or visit passfunctionalskills.co.uk

	Answer al	Section I questions in th	A ne spaces provided.		
1	Circle the value of 8^2	16	10	4	[1 mark]
2	A fair, ordinary dice is rolle What is the probability of ro Circle your answer. $\frac{1}{6}$		umber? $\frac{3}{6}$	5 6	[1 mark]
3	Work out 15-(6-2)	= 11			[1 mark]
	Answer	11			

4	By roundir	ng 2.97 to the near	est whole number	estimate the answe	er to	Do not outsid bo
			45 × 2.97		[2 marks]	
		45 x 3	= 135			
		Answer	135			
5	Complete	the table to show e	equivalent fractions	s, decimals and perc	centages.	
					[3 marks]	
		Fraction	Decimal	Percentage		
		4	0.25	25%		
		2 5	0.4	40%		
		3 10	0.3	30%		8
		Turn o	over for the next o	question		



(b)	Evie has drawn a pictogram to show the types of flag in her collection.
	Key: represents 2 flags
	Patterned
	Animal
	National
	Plain
	Evie says,
	"Less than one third of my flags are national flags."
	Is Evie correct? You must show your working.
	[5 marks] National flags = 7.5 x 2 = 15 flags
	$T_{mail} = \frac{1}{1000} = \frac{1}{$
	$Total \neq lags = (3x2) + (5 \cdot 5x2) + 15 + (2x2)$ $= 6 + 11 + 15 + 4 = 36$
	fraction of national flags = $\frac{15}{36} = \frac{5}{12}$
	$\frac{1}{3} = \frac{1}{12} < \frac{12}{5}$
	Evil is incorrect 5/12 of her flags are national
	flags.
	Turn over ▶
0 5	IB/G/Jun22/8361/



AQA

Please write clearly in	block capi	itals.		
Centre number			Candidate number	
Surname	_			
Forename(s)				
Forename(s) Candidate signature				

Functional Skills Level 1 MATHEMATICS

Paper 2 Calculator

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

a calculatormathematical instruments.

Instructions

- · Use black ink or black ball-point pen. Draw diagrams in pencil.
- · Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.
- State the units of your answer where appropriate.

Information

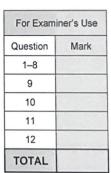
- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

In all calculations, show clearly how you work out your answer.

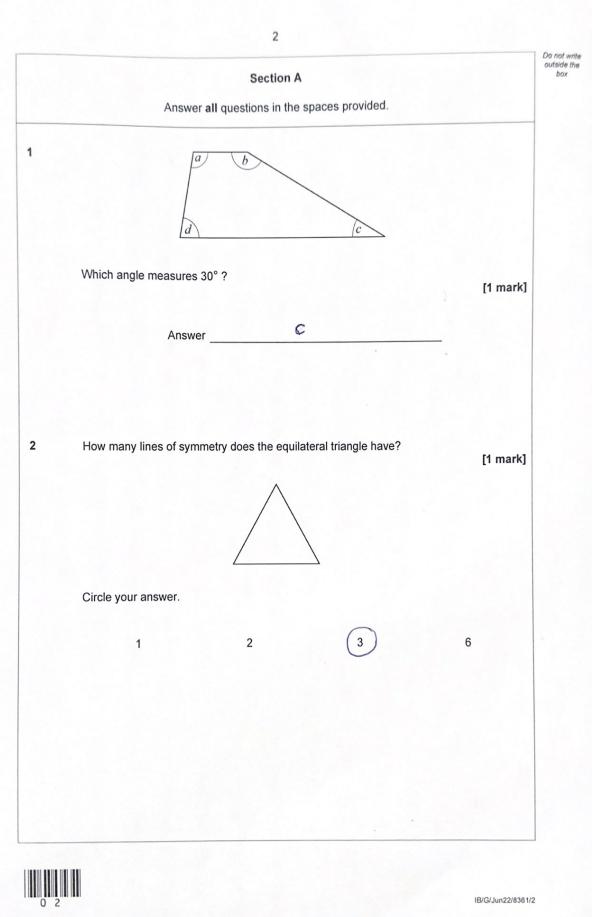


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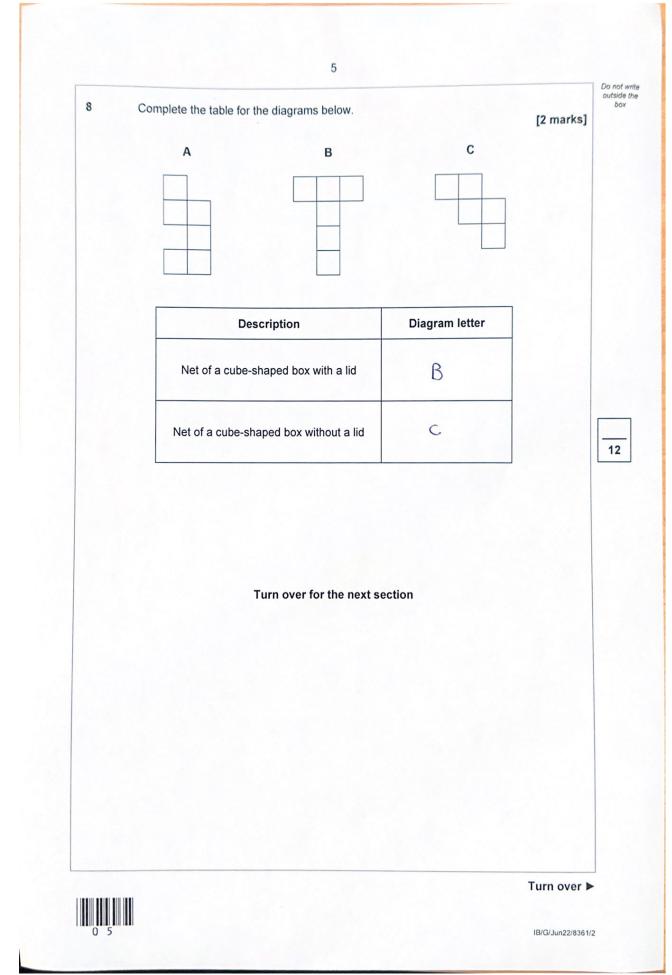
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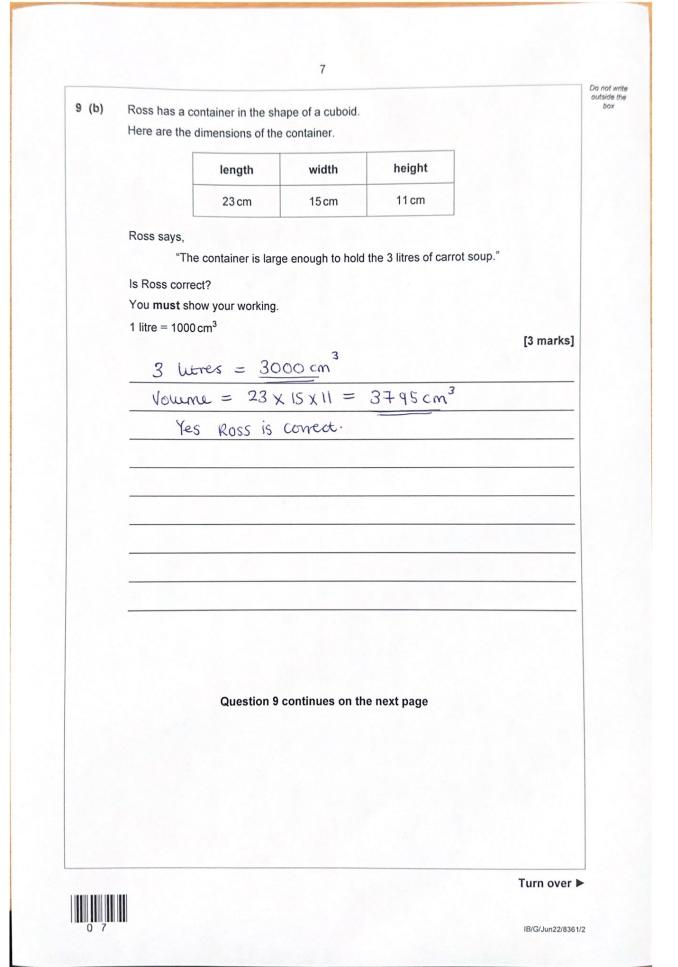


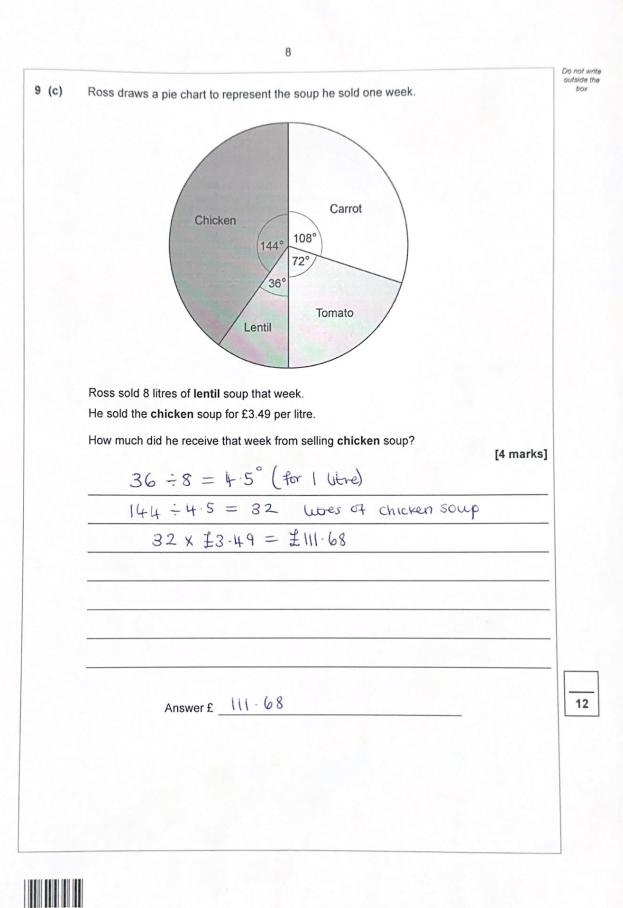
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6	Round 9.3583 to 2 decimal places	ہ [1 mark]
	Answer 9.36	_
7	Increase £126.80 by 15%	[3 marks]
	$126.80 \times 1.15 = \pm 145.82$	
	Answer £ 145-82	_



Answer all questions in the space d sells soup. carrot soup. pe. <u>Carrot soup</u> makes 2 litres 1.2 kg of carrots 1.4 litres of water 3 onions make 3 litres of soup. 500 g of carrots. d in 750 g packs. ks of carrots does he need to buy? v your working.	s provided.	
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ks of carrots does he need to buy?		
v your working.		
		[5 marks]
2 = 1.5		
x 1.5 = 1.8 kg of	carrots needed	
19 - 0.5 Kg = 1.3 K	و	
$\div 0.75 = 1.73$		S. Const
2 packs of carro	ts are needed	
Answer 2		
	: 0.75 = 1.73 2 packs of carro	÷ 0.75 = 1.73 2 packet of carrots are needed 2

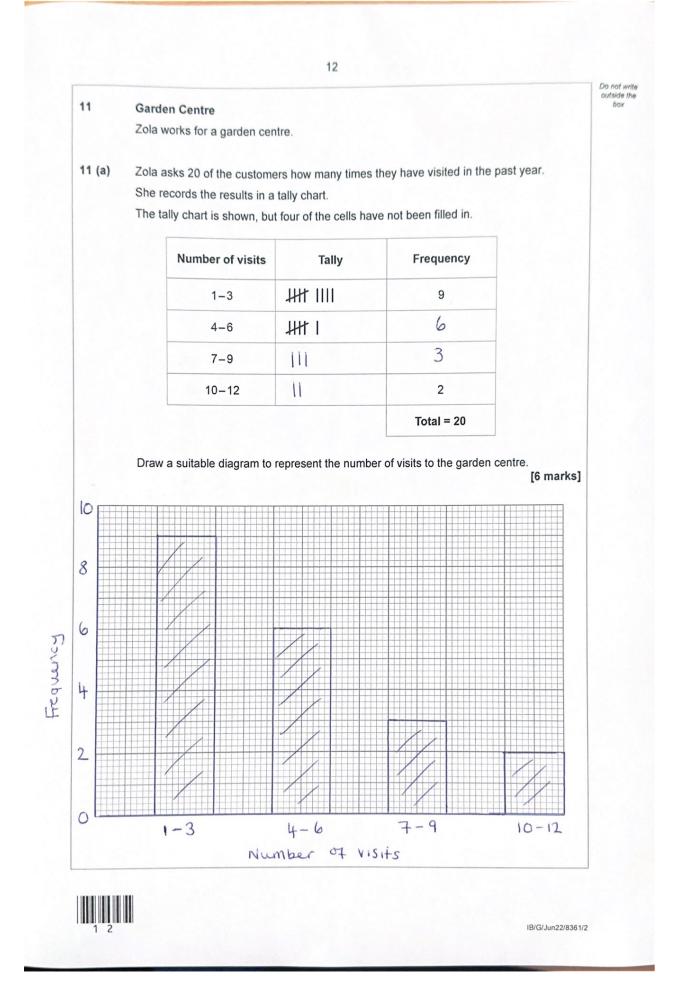




	9		
	Flooring		
	Nikki wants to sand and varnish the wooden	floors in her house.	
(a)	Nikki wants to hire a sanding tool for 3 days		
	She sees adverts for sanding tool hire at two	o companies.	_
	Tool hire depot	EZ hire company	
	£16 per day	£15 per day	
	3 days or more, 20% off the total cost	Hire for 3 days, 3rd day half price	
	Which company has the cheaper hire cost for	or 3 days?	
	You must show your working.		[6 marks]
	Tool hire depot		
	$(16 \times 3) \times 0.8 = \pm 38.1$	40	
	EL hire company		
	$15 \times 2 = 30$		
	$15 \times 2 = 30$ $15 \times 0.5 = 7.5$		
	Total ====30+===	£37.50	
	EZ hire company is	s cheaper.	
	-		

)(b) Th	e diagram shows a floor Nik		Not drawn accurately	
	↓	6.5 m		
Ni	kki needs 500 ml of varnish f	for each square metre of floor.		
	w much varnish does she n			[5 marks]
_	$3.7 \times 2.5 =$ (6.5-2.5)×1.8	9.25 m ²		
_	$(6.5 - 2.5) \times 1.8$	$= 7.2m^{2}$		
_		1.25+7.2 = 16.49		
-	Varnish = >0	$0 \times 16.45 = 8225 \text{ m}$	nl	
_				
_				
-				
_		8225		
	Answer	0220	ml	
]

Nikki starts to sand the floor at 10.15 am Will she have finished the work by 1 pm? You must show your working. Total time = 45+20+90 = 155 mi = 2 hours 35 minutes 10:15 am + 2 hrs 35 mins = 12:50 a Yes Nikki will be finished before 1 p	am pm.	
Will she have finished the work by 1 pm? You must show your working. Total time = 45 + 20 + 90 = 155 min = 2 hours 35 minutes 10:15 am + 2 hrs 35 min = 12:50 a		
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Will she have finished the work by 1 pm? You must show your working.	TINUTES	
Will she have finished the work by 1 pm?	[3 marks]	
Nikki starts to sand the floor at 10.15 am		
• $1\frac{1}{2}$ hours to varnish the floor.		
 20 minutes to clean the floor 		
 45 minutes to sand the floor 		



11 (b) Zola buys plants for her own garden.

She pays staff discount prices for the plants.

The table shows information about the plants she buys.

Plants	Normal price	Staff discount price	
A rose bush	£19.95	£8.50	
A pack of tulip bulbs	£10.50	£6.99	
A lavender plant	£4.30	£2.50	
A fruit tree	£48	£22.50	

Zola says,

"The total cost with the discount prices is **less than** half of the total cost with the normal prices."

Is she correct?

You must show your working.

[4 marks]

Do not write outside the

box

 T_{0+a4} of normal price = 19.95+10.50+4.30+48 = ± 82.75

- Total Staff discount = $8.50 \pm 6.99 \pm 22.50$ = ± 40.49
 - 40.49 = 0.489... < 0.5

82.75

Zola is correct.

10

Turn over ►



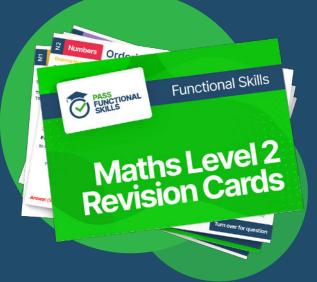
12	Electric Car			
	Kofi wants to buy an electric car.			
2 (a)	Kofi can buy the car using Option A or Option B.			
	Option A Option B			
	One payment of £32549 Pay 10% of £32549			
	and			
	48 monthly payments of £638			
	In total, how much more would Option B cost than Option A?	[5 marks]		
	OPTION B: 10% of 32549 = 32549x	0.1		
	$= \pm 3254.90$	0		
	48 × 638 = \$30624			
	Ly total = 3254.90 + 30624 = £3387	8.90		
	difference = 33878.90 - 32549 = \$1	329.90		
	Answer £ 1329.90			
	Answer £			

12 (b)	Kofi asks an electrician to install a charging point outside his house for his car. The electrician works out the cost of installation using this formula.			
	Cost of installation = Price of parts $+$ £52.50 × Number of hours worked			
	The price of the particle of the particle of the particle of the hours	arts is £794.85 s the electrician wo	rked.	
		Monday	9 am to 1 pm	
		Tuesday	3 pm to 5 pm	
		is the cost of the in		[3 marks]
	hours	worked =	4 + 2 = 6 £315	
	6 X 8	252.50 =	£315	
	lotar (4.85+315=1	101 85
		nswer £ 1109	.85	
		nswer £ _1109	.85	
		nswer £ 1109	.85	
		nswer £ 1109	.85	
		nswer £ 1109	.85	

12 (c)	Kofi buys the car.	Do not wri outside th box
	The battery in the car can hold 80 kWh of energy.	
	One morning the battery is $\frac{1}{4}$ full.	
	The car uses 1 kWh of energy to travel 3.2 miles. Kofi's work is 28 miles from his home by car.	
	Is there enough energy left in the battery for Kofi to drive to work and back? You must show your working.	
	[4 marks] 80 - 4 = 20 Kwh	
	20 X 3 · 2 = 64 miles of charge 28 X 2 = \$6 miles to work and back. Yes thure is enough energy in the battery.	
	28 X 2 = \$6 miles to work and back.	
	Yes there is enough energy in the battery.	
		12
	END OF QUESTIONS	







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