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Lite GCSE Maths

Money Problem Solving 2

Name:			

Class:

Solutions

Author:

Date:

Time:

32

Marks:

28

Comments:

Q1. This is part of Sari's electricity bill.

OHM Electricity Company

Present reading

7466 units

Last reading

6942 units

Each unit costs 4.5p

How much does she pay?

1466

Units used

524

Answerf 23.58

(Total 4 marks)

Q2. The table shows UK postal rates.

	Weight	First Class	Second Class
Letter	0 —100g	£0.34	£0.24
	0 —100g	£0.48	£0.40
Large Letter	101—250g	£0.70	£0.60
	251—500g	£0.98	£0.83
	501—750g	£1.42	£1.20
	0 —100g	£1.09	£0.92
	101—250g	£1.38	£1.20
	251—500g	£1.84	£1.52
Packet	501—750g	£2.38	£1.92
	751—1000g	£2.92	£2.30
	1001—1250g	£4.25	Please note items
	Each additional 250 g or part thereof	+ £0.75	heavier than 1000 g cannot be sent Second Class

		·
(a)	What is the cost of sending a 225 g large letter using First Class?	
	Answer £	
(b)	What is the weight of the heaviest item that can be sent Second Class?	
~/	Answer Mark of the Heaviest Rem that can be sent Second Class?	
	γ	
(c)	A packet weighs 1.3 kg.	
	How much does it cost to send it using First Class?	
	£4.25 + £0.75 = £5.00	
	Answer	
		(Total 5 m

Q3. Three shops advertise the same luxury chair. Each shop has a special offer.

Chair - normal price £600

Special Offer – 30% off normal price



Shop B

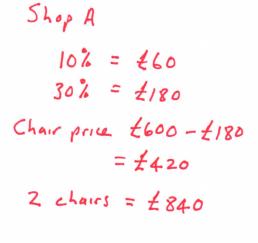
Chair - normal price £550

Special Offer – $\frac{1}{5}$ off normal price



Chair - normal price £820

Special Offer – buy one get one free



.

£550 =5 = £110

Chair price = £550-£110

2 chairs = £880

(a) Mutasem wants to buy **two** of these luxury chairs.

At which shop is the price of the two chairs the cheapest? You **must** show your working.

Shop C	2	. cha	irs for	₹82	0	
Z	820	4	£840	4 Z	880	
	Ç	4	A	4	B	

Answer: Shop

(5)

(b) Mutasem wants to have the chairs delivered.The table shows the delivery cost and the delivery time for each shop.

Shop	Total delivery cost	Delivery time
А	Free	3 weeks
В	£20	Next day
С	£10	8 weeks

£840

4830

Taking everything into account give a reason why each shop could be the best choice.

Shop A

Reason Only £10 more than option C but much quicker delivery than C

	Shop B Reason Dearest but instant delivery	
	Shop C Reason Cheapest if delivery time unimportent	,
		(3) (Total 8 marks)
Q4.	(a) Travelling 10 000 kilometres costs £800 for petrol. How much does it cost to travel 12 500 kilometres?	80
	£800 x 1.25 = £1000 Answer £ 1000	(1)
	 (b) Last year Mr Taylor travelled 15 000 km in his car and spent £1200 on petrol. This year he expects to travel 20 000 km. He estimates that the price of petrol has increased by 10% on what it was last year 	ar.
	How much should Mr Taylor expect to pay for petrol this year?	3:4
	£1200 x 4 = £1600	
	Cost at this year's prices	
	£1600 x 1.1 = £1760 Answer£ 1760	(4)
		(Total 5 marks)

	She also buys 0.8 kilograms of apples. Her total bill is £1.93	4 0.
	How much per kilogram was she charged for the apples?	
	Bananas 95 x 1.4 = 133p	
	Bill for apples 193-133 = 60p	
	0.8 kg of apples for 60p	
	1 kg = 60 ÷ 0.8 = 75p	
	Answer 75 pence	
(4)	portice	
	(b) Jane spends £4.50 on fruit. Her total bill is £22.50	
	What percentage of her total bill is for fruit?	
	4.50 × 100	
	22.50	
	Answer	
(2)	Allswei%	
(Total 6 marks)		