Number Problems

John could bought it for £4500 cash. What percentage extra did he pay through buying it in instalments?

Paid extra 25207 - 24500 = 2707

$$\frac{707}{4500} \times 100 = 15.7\%$$

Alternatively $\frac{5207}{4500} = 1.157$ showing 15.7% extra paid **Q1.** Greg goes shopping with £20. He spends £5.60 on his lunch.

He needs £1.30 for his bus fare. He sees this advert for shoes.

Shoes

Normal Price £15 Sale price 10% off normal price

5.60 1.30 26.90 220.00 £ 6.90 £ 13.10 left

Does he have enough money to buy them?

You must show your working

10% of £15 = £1.50

£15 - £1.50 = £13.50

No he is 40p short of being able to buy shores.

41 Tue 26 Mar Q2. 2 of 8	© homework.m34maths.com Salima sees an advert for a summer holiday.					२ ♀ 40% ■)	
	Fan	Summe tastic deals with \$		Holidays			315 2 x
		Dates	7 nights	14 nights			2630
		1 April – 30 April	£315	£575			Z 630
		1 May – 6 July	£220	£400			
	Prices are for one adult (16 years and over) Children (less than 16 years) 75% of adult price 10% discount if booked online (<u>www.sunbreaks.co.uk</u>) Page 2 of 8					$E \times tr4 = 212.6$ $\frac{12.60}{630} \times 100$	
	Salima books a 7-	night holiday in April for two	adults.				= 2%

Q4. Barbara uses her car to work as a volunteer driver at her local hospital.

She is paid 40 p for every mile she drives.

On average she drives 2000 miles each month.

Here is some information about the running costs of Barbara's car.

Fuel consumption	50 miles per gallon
Other running costs	10 pence per mile

(a) Petrol costs £5 per gallon

. . .

Calculate Barbara's annual fuel bill.

24000 miles 2000 × 12 = 480x5 15 4000 50 Answer £ 2400

 (b) After paying for fuel and other running costs, Barbara saves the money left over. Barbara is planning to use this money for a holiday that will cost £3000.

Will Barbara have enough money after saving for one year?

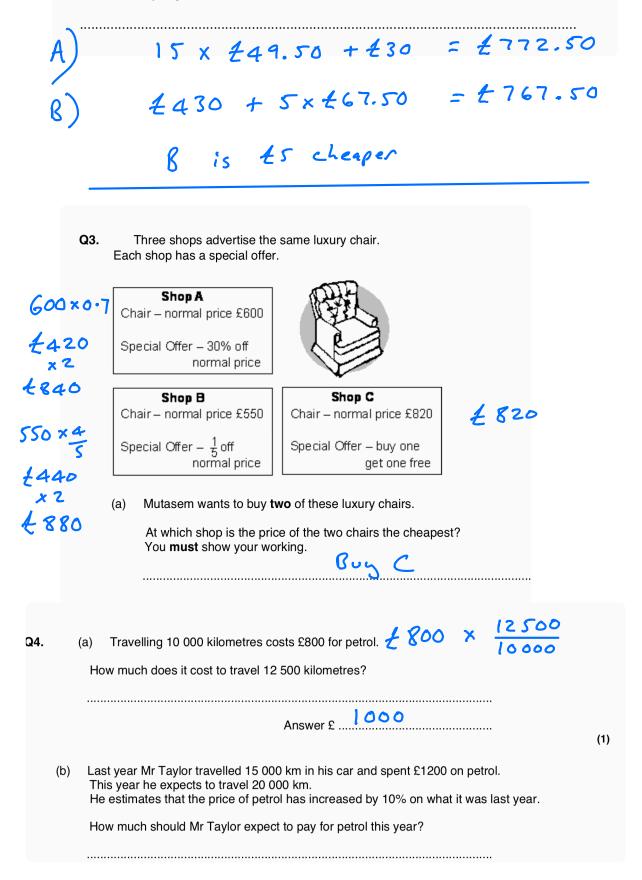
		= £9600
Running costs Fuel	24000 × 0.10	= £2400 £2400
·	Outgoings	£4800
Left over	= £9600 - £ = £9800	-4800
So yes co	in afford E	3000 holiday

Q5.	The shape of a flower bed is a cuboid as shown.	
	Not drawn accurately	
	2 m	
	←6m¥	
	1 m ³ of soil weighs 1.25 tonnes A gardener wants to fill the flower bed with soil as cheaply as possible.	
Vo(= Gx2x1 = 12m ³ Require 12 x 1.25 =	15 mes

The table shows the costs for Company A and Company B.

Company A	£ 49.50 per tonne	Delivery £ 30
Company B	10 tonnes for £ 430 then £ 67.50 per extra tonne	Delivery free

Which company should she use and how much will it cost?



£ 1200 × 2000	<u> </u>
1500	
Add on 10%	£1600 x 1.1
	= £1760