JustMaths

A vacuum cleaner costs £85. John gets a 10% discount off the cost price.

How much does he pay?

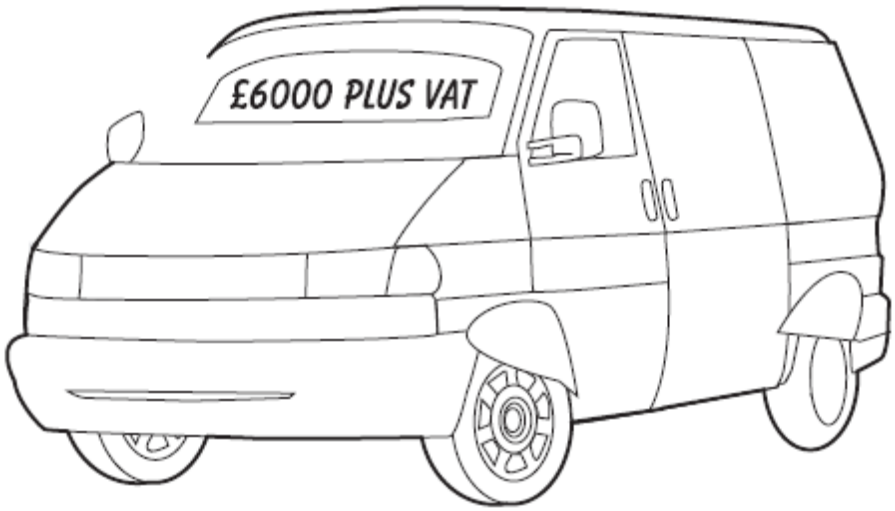
10% = £8·50

85 - 8·50 = £76·50

Double check your answers... lots of students got the subtraction wrong and wrote £77·50 !!

(3)

Lizzie bought a van. The total cost of the van was £6000 plus VAT at 20 %.



Lizzie paid £3000 when she got the van. She paid the rest of the total cost of the van in 10 equal monthly payments.

Work out the amount of each monthly payment.

10% = £600

20% = £1200

Total cost = 6000 + 1200 = £7200

less deposit − 3000

4200

paid in 10 installments

4200 ÷ 10

⇒ £420 per month

(6)

JustMaths

A company sells boxes to factories.
Fred buys boxes.
The boxes are sold in packs of 1000.
Each pack costs £193.86 ×3

Fred orders 3 packs of boxes.
He gets a discount on his total order.

The table shows the discount he will get.

Total Order	Discount
£100 - £300	5%
£301 - £400	10%
£401 and above	15%

Work out the total cost of the order after the discount.
You must show your working.

193.86 × 3 = 581.58

193.86
193.86
193.86
581.58

10% = 58.158
5% = 29.079
15% = 87.237
= £87.24

I found at this point!

(5)

Amount actually paid
= 581.58
− 87.24
494.34

£494.34

Two shops both sell the same type of suit. In both shops the price of the suit was £180.

One shop increases the price of the suit by 17 ½ %.

The other shop increases the price of the suit by 22 ½ %.

Calculate the difference between the new prices of the suits in the two shops.

A

£180

10% = 18

5% = 9

2½% = 4.5

so 17½% = £31.50

B

£180

10% = 18

5% = 9

2½% = 4.50

22½% = £40.50

TOTAL PAID.

180 + 31.50 = £211.50

180 + 40.50 = £220.50

Difference = £9

(3)

Railtickets and Cheaptrains are two websites selling train tickets. Each of the websites adds a credit card charge and a booking fee to the ticket price.

Railtickets	Cheaptrains
Credit card charge: 2.25% of ticket price	Credit card charge: 1.5% of ticket price
Booking fee: 80 pence	Booking fee: £1.90

Nadia wants to buy a train ticket. The ticket price is £60 on each website.

Nadia will pay by credit card.

Will it be cheaper for Nadia to buy the train ticket from Railtickets or from Cheaptrains?

R

£60

10% = £6

1% = 0·60p

0·5% = 0·30p

0·25% = 0·15p

2·25% = 60p + 60p + 15p

= £1·35

Booking fee 0·80

2·15

⇒ 62·15

C

£60

1·5% = 60p + 30p

= 90p

Booking fee 1·90

£2·80

62·80

so Railtickets is cheapest by 65p

(4)