

a)
Dr Yang buys a violin for £13,200 plus VAT at 20%.
Dr Yang pays a deposit for the violin.

He then pays the rest of the cost in 12 equal payments of £360 each month.

Find the ratio of the deposit Dr Yang pays to the total of the 12 equal payments.

Give your answer in its simplest form.

How much does Dr Yang pay for the violin?	$£13,200 \times 1.2 = £15,840$
How much does Dr Yang pay in total in monthly instalments?	$£360 \times 12 = £4,320$
How much does Dr Yang pay as a deposit?	$£15,840 - £4,320 = £11,520$
What is the ratio of the deposit to the total of the monthly payments in its simplest form?	$11,520 : 4,320 = 8 : 3$

b)
Mr Harris buys a piano for £14,000 plus VAT at 20%.
Mr Harris pays a deposit for the piano.

He then pays the rest of the cost in 24 equal payments of £400 each month.

Find the ratio of the deposit Mr Harris pays to the total of the 24 equal payments.

Give your answer in its simplest form.

How much does Mr Harris pay for the piano?	$£14,000 \times 1.2 = £16,800$
How much does Mr Harris pay in total in monthly instalments?	$£400 \times 24 = £9,600$
How much does Mr Harris pay as a deposit?	$£16,800 - £9,600 = £7,200$
What is the ratio of the deposit to the total of the monthly payments in its simplest form?	

c)
Mrs Harris has her garden landscape at a cost of £8,000 plus VAT at 20%.
Mrs Harris pays a deposit for the landscaping.

She then pays the rest of the cost in 12 equal payments of £300 each month.

Find the ratio of the deposit Mrs Harris pays to the total of the 12 equal payments.

Give your answer in its simplest form.

How much does Mrs Harris pay for the landscaping?	$£8,000 \times 1.2 = £9,600$
How much does Mrs Harris pay in total in monthly instalments?	$£300 \times 12 = £3,600$
How much does Mrs Harris pay as a deposit?	
What is the ratio of the deposit to the total of the monthly payments in its simplest form?	

d)
Dr Hill buys a car for £30,000 plus VAT at 20%.
Dr Hill pays a deposit for the car.

They then pay the rest of the cost in 48 equal payments of £500 each month.

Find the ratio of the deposit Dr Hill pays to the total of the 48 equal payments.

Give your answer in its simplest form.