Forming Equations

21 marks

1.	Mr Smith owns minibuses and coaches.					
	Each minibus has 12 seats.					
	(a)	Write an expression, in terms of m , for the number of seats in m minibuses.				
	(b)					
		(1)				
	Each	Each coach has 48 seats				
	(b)	Write an expression, in terms of m and c , for the number of seats in m minibuses and c coaches.				
		(2)				
		(Total 3 marks)				
2.	Lisa	packs pencils in boxes.				
		packs 12 pencils in each box.				
	Lisa packs x boxes of pencils.					
	(a) Write an expression, in terms of x , for the number of pencils Lisa packs.					
		(1)				
	Lisa	also packs pens in boxes.				
	She p	packs 10 pens into each box.				
	Lisa	packs y boxes of pens.				
	(b)	Write down an expression, in terms of x and y , for the total number of pens and pencils Lisa packs.				
		(2) (Total 3 marks)				

Audrey sells packets of sweets. There are three sizes of packets.						
Small	Medium	Large				
There are n sweets in the small pa						
There are twice as many sweets in	n the medium packet as the	ere are in the small packet.				
(a) Write down an expression,	in terms of n , for the number n	ber of sweets in the medium packet.				
			(1)			
There are 15 more sweets in the la	arge packet than in the med	dium packet.				
(b) Write down an expression,	in terms of n , for the numl	ber of sweets in the large packet.				
			(1)			
A small packet of sweets costs 20	p.					
Sebastian buys q small packets of	Sebastian buys q small packets of sweets.					
(c) Write down an expression,	in terms of q , for the cost	in pence of the sweets.				
		pence	(1)			
		(Total 3 ma				

3.

4.	Jennifer made <i>x</i> cakes. She put 4 sweets on top of each cake.				
	(a)	Write down an expression, in terms of x , for the number of sweets she used.			
		(1)			
	Paul	made 3 more cakes than Jennifer.			
	(b)	Write down an expression, in terms of x , for the number of cakes Paul made.			
		(1)			
	Paul	also put 4 sweets on each of his cakes.			
	(c)	Write down an expression, in terms of x , for the number of sweets Paul used.			
		(1)			
		(Total 3 marks)			
5.	Jessica is paid £7 for each hour that she works. She works for y hours.				
	(a)	Write down an expression, in terms of y , for the amount, in pounds (\pounds) , that Jessica is paid.			
		(1)			
		v is also paid £7 for each hour that she works. works for three times as many hours as Jessica.			
	(b)	Write down an expression, in terms of y , for the amount, in pounds (\pounds) , that Lucy is paid. Give your answer as simply as possible.			
		(2) (Total 3 marks)			

6.	And	rew, Brenda and Callum each collect football stickers.						
	Andrew has x stickers.							
	Brei	Brenda has three times as many stickers as Andrew.						
	(a)	Write down an expression for the number of stickers that Bren	nda has.					
			(1)					
	Call	um has 9 stickers less than Andrew.	(1)					
	(b)	Write down an expression for the number of stickers that Call	um has.					
			(1) (Total 2 marks)					
7.	The	cost, in pounds, of hiring a car can be worked out using this rule	2.					
		Add 3 to the number of days' hire						
		Multiply your answer by 10						
	(a)	Work out the cost of hiring a car for 4 days.						
			£(2)					
	Bish	nen hired a car.						
	The	cost was £120						
	(b)	Work out the number of days for which Bishen hired the car.						
			(2) (Total 4 marks)					