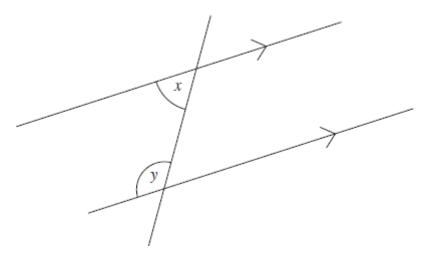
Q1.

Not drawn accurately



(a) Use the diagram t	to write an	equation	connecting	x and y	v.
١	·~	, coo ino alagram	to will all	oquation	0011110011119	n ana ,	<i>,</i> •

Answer	
Allswei	(1)

(b)	The ratio	x : y = 2 : 3
101	THE TAILE	1 . V – 2 . J

Use this information to write another equation connecting \boldsymbol{x} and \boldsymbol{y} .

Answer

(Total 2 marks)

Q2.A fruit drink is made by mixing juice and lemonade in the ratio

juice : lemonade = 1 : 4

Juice costs £6.00 per litre.

Lemonade costs 50p per litre.

(a) Show that 1 litre of the fruit drink costs £1.60 to make.

			(3)
	(b)	The fruit drink is sold for £2 a litre.	
		Work out the percentage profit.	
		Answer %	(2)
			(Total 5 marks)
Q3 Alice ha	as f4	Billie has twice as much as Alice.	
		has two-thirds of the amount Chris has.	
		amount Chris has is four-fifths of his age in years.	
	How	old is Chris?	
	•••••		
		Answer years	Total 4 marks)

Q4. (a)		ells red roses and white roses in the ratio 7 : 2 y 392 red roses are sold.		
		How many white roses are sold?		
		Answer	(2)	
	(b)	A different shop sells red roses and white roses in the ratio 8 : 3 What is the probability that a rose, sold at random, is red?		
		Answer	 (1) (Total 3 marks)	