1. There are only blue pens, green pens and red pens in a box.

The ratio of the number of blue pens to the number of green pens is 2:5 The ratio of the number of green pens to the number of red pens is 4:1

There are less than 100 pens in the box.

What is the greatest possible number of red pens in the box?

2:5

(4)

8:20

4:1 (×5)

20:5/

8:20:5/

(x3)

24:60:15

(Total for Question

is 3 marks)

Let be the recipiest of 1.6

30 × 1.6 = 1

(+1.6) (+1.6)

Achge of AWMberg which will: Round up to 9-8

Abund Obwa to 9-8

ac < 9 · 85

9.7650049.85



2. Tom and Adam have a total of 240 stamps.

The ratio of the number of Tom's stamps to the number of Adam's stamps is 3:7

Tom buys some stamps from Adam.

The ratio of the number of Tom's stamps to the number of Adam's stamps is now 3:5

How many stamps does Tom buy from Adam?

You must show all your working.

	Tom:	Adam			
Original	3:	7	Total 240 Star	mps	
New	3:		Total 240 Star	mps Stam Origin	ps Tom had ally and
Original-	3 +7=	$\begin{pmatrix} 0 \\ 0 \end{pmatrix} \frac{2}{16}$	40 0 = 24 3 ×	(24=72 Star	
Vew →	3+5= 8	5 <u>20</u>	30 3 x	30 = 90 Stan	ibs
90-72			\ gettu	ng how Many ups '1' in the	
lacktriangle			atio	o is worth	
	finding	m wan	ory		18
	Xtames	were s	old		

3. Given that $\frac{a}{b} = \frac{2}{5}$ and $\frac{b}{c} = \frac{3}{4}$

find a:b:c

a:b=2:5 b:c=3:4

a: b: c

10 find b, LCM (5,3) = 15

$$A:b$$
 $b:c$
 $A:5$
 $A:5$

6.15:20

(Total for Question is 3 marks) **4.** Adam, Linda and Rytis share an amount of money.

Linda gets three times as much money as Rytis gets. $\rightarrow L = 3R$ Linda gets half as much money as Adam gets. $\rightarrow L = \frac{1}{2}R$

What fraction of the amount of money does Linda get?

ler
$$R=1$$
 $\rightarrow L=3$ ratio $A:L:R$ $\rightarrow A=6$ $6:3:1$

fraction for Lindon =
$$\frac{3}{6+3+1} = \frac{3}{10}$$

3/10/2

(Total for Question is 2 marks)