1	Pavel and Katie share some sweets in the ratio 3: Katie gets 32 sweets.	
	(a) How many sweets does Pavel get?	
		(2)
	Katie also has a tin of chocolates. There are 80 chocolates in the tin. 45% of the chocolates have toffee in the middle.	
	(b) Work out the number of chocolates that have toffee in the middle.	
		(2)
	(Total for Question 1	
		,
2	Sylvie shares £45 between Ann, Bob and Cath in the ratio 2:3:4	
	Work out the amount each person gets.	
	Ann	
	Bob	
	Cath	
	(Total for Question 2 is	3 marks)
		·

J	Jim has only 5p coins and 10p coins.
	The ratio of the number of 5p coins to the number of 10p coins is 2:3
	Work out the ratio of
	the total value of the 5p coins: the total value of the 10p coins.
	Give your answer in its simplest form.
	(Total for Question 3 is 3 marks)
4	Sandra has a piece of string 153 cm long. She cuts the string into three lengths in the ratio 4:2:3
	Work out the length, in centimetres, of each piece of string.
	cm
	cm
	cm
	cm

5	Anna and Lionel share \$675 in the ratio 4:5
	Lionel gives $\frac{3}{5}$ of his share of the money to his mother.
	How much money does Lionel give to his mother?
	\$
	(Total for Question 5 is 3 marks)
6	3 years ago, the ratio of Tom's age to Clemmie's age was 2 : 7 Tom is now 15 years old and Clemmie is now <i>x</i> years old.
	Find the value of x .
	The the value of x.
	x =

7	5 schools sent some students to a conference.
	One of the schools sent both boys and girls. This school sent 16 boys. The ratio of the number of boys it sent to the number of girls it sent was 1:2
	The other 4 schools sent only girls. Each of the 5 schools sent the same number of students.
	Work out the total number of students sent to the conference by these 5 schools.
_	(Total for Question 7 is 4 marks)

8	Talil is going to make some concrete mix. He needs to mix cement, sand and gravel in the ratio 1:3:5 by weight.
	Talil wants to make 180 kg of concrete mix.
	Talil has
	15 kg of cement 85 kg of sand 100 kg of gravel
	Does Talil have enough cement, sand and gravel to make the concrete mix?
	(Total for Question 8 is 4 marks)

9	On a farm there are chickens, ducks and pigs.
	The ratio of the number of chickens to the number of ducks is 7:2 The ratio of the number of ducks to the number of pigs is 5:9 There are 36 pigs on the farm.
	Work out the number of chickens on the farm.
_	(Total for Question 9 is 3 marks)

10 Each day a company posts some small letters and some large letters.

The company posts all the letters by first class post.

The tables show information about the cost of sending a small letter by first class post and the cost of sending a large letter by first class post.

Small Letter

Weight	First Class Post
0-100 g	60p

Large Letter

Weight	First Class Post
0-100 g	£1.00
101–250 g	£1.50
251–500 g	£1.70
501–750 g	£2.50

One day the company wants to post 200 letters.

The ratio of the number of small letters to the number of large letters is 3:2

70% of the large letters weigh 0–100 g.

The rest of the large letters weigh 101–250 g.

Work out the total cost of posting the 200 letters by first class post.

11	Emma has a digital photo.
	Diagram NOT 540 pixels accurately drawn
	720 pixels
	The photo has a width of 720 pixels. The photo has a height of 540 pixels.
	(a) Write down the ratio of the width of the photo to the height of the photo. Give your ratio in its simplest form.
	(2)
	Emma wants the ratio of the width of the photo to the height of the photo to be 3:2 She reduces the number of pixels in the height of the photo. The width of the photo is still 720 pixels.
	The ratio of the width of the photo to the new height of the photo is 3:2
	(b) Work out the new height of the photo.
	pixels (2)
	(Total for Question 11 is 4 marks)
	(10mm for Question 11 is 1 mm is)

12	There are 60 children in a club.		
	In the club, the ratio of the number of girls to the number of boys is 3:1		
	$\frac{3}{5}$	of the girls play a musical instrument.	
	$\frac{4}{5}$	of the boys play a musical instrument.	
	What	fraction of the 60 children play a musical instrument?	
		(Total for Question 12 is 4 marks)	

13	120 children go on an activity holiday. The ratio of the number of girls to the number of boys is 3:5
	On Sunday, all the children either go sailing or go climbing.
	$\frac{16}{25}$ of the boys go climbing.
	Twice as many girls go sailing as go climbing.
	Work out how many children go sailing on Sunday.
_	(Total for Question 13 is 6 marks)