1	There are only red buttons, yellow buttons and orange buttons in a jar.  The number of red buttons, the number of yellow buttons and the number of orange buttons are in the ratio 7:4:9					
	Work out what percentage of the buttons in the jar are orange.					
	%					
	(Total for Question is 2 marks)					
2	Harry, Regan and Kelan share £450 in the ratio 2:5:3					
	How much money does Kelan get?					
	£					
	(Total for Question is 2 marks)					

3 Kiaria is 7 years older than Jay. Martha is twice as old as Kiaria. The sum of their three ages is 77
Find the ratio of Jay's age to Kiaria's age to Martha's age.

.....

(Total for Question is 4 marks)

- 4 Annie and Lily share some money in the ratio 4:3
  - (a) What fraction of the money does Lily get?

(1)

Rosie and Dan share some sweets.

Dan gets  $\frac{1}{4}$  of the sweets.

(b) Write down the ratio of the number of sweets Rosie gets to the number of sweets Dan gets.

(1)

(Total for Question is 2 marks)

5 The table shows a cricket club's income in 2016 from a fete, a quiz and membership fees.

	Income				
Fete	£250				
Quiz	Entry fees 13 at £5 each				
	Refreshments £35				
Membership fees	25 at £20 each				

Express as a ratio

the income from the fete to the income from the quiz to the income from membership fees.

Give your ratio in its simplest form.

(Total for Question is 3 marks)

**6** The ratio of the cost of one metre of cotton fabric to the cost of one metre of silk fabric is 2:5 Complete the table of costs.

	2 m	6 m	8 m	9 m
cotton fabric	£6			
silk fabric				

(Total for Question is 3 marks)

- **7** There are some chocolates in a box.
  - $\frac{1}{4}$  of the chocolates contain nuts.

The rest of the chocolates do not contain nuts.

Write down the ratio of the number of chocolates that contain nuts to the number of chocolates that do not contain nuts.

Give your answer in the form 1:n

(Total for Question is 2 marks)

## 8 In a village

the number of houses and the number of flats are in the ratio 7:4 the number of flats and the number of bungalows are in the ratio 8:5

There are 50 bungalows in the village.

How many houses are there in the village?

.....

(Total for Question is 3 marks)

9 Alan, Bispah and Chan share a sum of money.

Alan gets  $\frac{1}{8}$  of the money.

Bispah gets  $\frac{1}{2}$  of the money.

Chan gets the rest of the money.

Alan gets £2.50

(a) Work out how much money Bispah gets.



(b) Find the ratio

amount of money Alan gets: amount of money Chan gets

Give your answer in the form a:b where a and b are whole numbers.

(3)

(Total for Question is 5 marks)

10	Azmol, Ryan and Kim each played a game.						
	Azmol's score was four times Ryan's score. Kim's score was half of Azmol's score.						
	Write down the ratio of Azmol's score to Ryan's score to Kim's score.						
	(Total for Organian is 2 marks)						
	(Total for Question is 2 marks)						
11	Here is a grid of squares.						
	Write down the ratio of the number of shaded squares to the number of unshaded squares.						
	(Total for Question is 1 mark)						
	(Total for Question 15 1 mark)						

12 In a bag there are only red counters, blue counters, green counters and yellow counters. A counter is taken at random from the bag.

The table shows the probabilities of getting a red counter or a yellow counter.

Colour	red	blue	green	yellow	
Probability	0.4			0.25	

the number of blue counters : the number of green counters =  $\mathbf{3}$  : 4 Complete the table.

(Total for Question is 4 marks)

**13** (a) A bag contains red counters and blue counters only.

number of red counters: number of blue counters = 3:4

Write down the fraction of the counters that are red.

(1)

(b) Write the ratio 12:30 in the form 1:n

(2)

(Total for Question is 3 marks)

14	Jamil makes a drink by mixing 1 part of orange squash with 9 parts of water.						
	He uses 750 millilitres of orange squash.						
	Jamil is going to put the drink he has mixed into 1 litre bottles.						
	Work out the greatest number of 1 litre bottles that Jamil can completely fill.						
	(	Total for Question	is 3 marks)				
15	Adam, Linda and Rytis share an amount of money.						
	Linda gets three times as much money as Rytis gets. Linda gets half as much money as Adam gets.						
	What fraction of the amount of money does Linda get?						

(Total for Question

is 2 marks)

16	Pens	and	pencils	are	sold	in	a	shop.
----	------	-----	---------	-----	------	----	---	-------

12 pencils cost £1.80

The ratio of the cost of a pen to the cost of a pencil is 7:3

Work out the cost of 5 pens.

£.....

(Total for Question is 4 marks)

17 Carlo puts tins into small boxes and into large boxes.

He puts 6 tins into each small box. He puts 20 tins into each large box.

Carlo puts a total of 3000 tins into the boxes so that

number of tins in small boxes: number of tins in large boxes = 2:3

Carlo says that less than 30% of the boxes filled with tins are large boxes.

Is Carlo correct?

You must show all your working.

(Total for Question is 5 marks)