

Sharing in Ratios Past Paper Questions



Questions

Q1.

Harry, Regan and Kelan share £450 in the ratio 2 : 5 : 3

How much money does Kelan get?

£

(Total for question = 2 marks)

Q2.

In a tin of baked beans,

weight of beans : weight of tomatoes : weight of other ingredients = 3 : 2 : 1

There are 150 g of tomatoes in the tin.

Work out the weight of the beans.

..... g

(Total for question = 2 marks)



Q3.

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 = 4 marks)

Q4.

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 = 3 : 4

Complete the table.

(Total for question = 4 marks)

Q5.



Ali, Ben and Cathy share an amount of money in the ratio 6 : 9 : 10

What fraction of the money does Ben get?

.....
(Total for question = 2 marks)

Q6.

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.

.....
(Total for question = 4 marks)

Q7.



Rosie, Matilda and Ibrahim collect stickers.

$$\begin{array}{ccccccc} \text{number of stickers} & & \text{number of stickers} & & \text{number of stickers} & & \\ \text{Rosie has} & : & \text{Matilda has} & : & \text{Ibrahim has} & = & 4:7:15 \end{array}$$

Ibrahim has 24 more stickers than Matilda.

Ibrahim has more stickers than Rosie.

How many more?

.....
(Total for question = 3 marks)

Q8.

Rob has been asked to divide 120 in the ratio 3 : 5

Here is his working.

$$120 \div 3 = 40$$

$$120 \div 5 = 24$$

Rob's working is not correct.

Describe what Rob has done wrong.

.....
.....
.....

(Total for question = 1 mark)

Q9.



£360 is shared between Abby, Ben, Chloe and Denesh.

The ratio of the amount Abby gets to the amount Ben gets is 2 : 7

Chloe and Denesh each get 1.5 times the amount Abby gets.

Work out the amount of money that Ben gets.

£

(Total for question = 4 marks)

Q10.

A pile of sand has a weight of 60 kg.

The sand is put into a small bag, a medium bag and a large bag in the ratio 2 : 3 : 7

Work out the weight of sand in each bag.

small bag kg

medium bag kg

large bag kg

(Total for Question is 3 marks)

Q11.



Ali, Ben and Candice share £300 in the ratio 2 : 3 : 5

How much money does Candice get?

£

(Total for Question is 2 marks)

Q12.

Helen has 80 books to sell.

Each book is Fiction or Non-fiction.

The ratio of the number of Fiction books to the number of Non-fiction books is 3:1

Each book has a normal price of £10

Helen reduces the price of all the Non-fiction books.

<p>Non-fiction</p> <p>All books ½ price</p>
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Helen sells all 80 books.

Work out the total amount of money Helen will receive.

£

(Total for question = 4 marks)