

1.

a. Share 20 in the ratio 2 : 3

b. Divide 36 in the ratio 5 : 4

c. Share 27 in the ratio 2 : 7

d. Divide 45 in the ratio 3 : 4 : 8

e. Share 210 in the ratio 4 : 2 : 1

f. Divide 168 in the ratio 6 : 3 : 5

2.

a. Share 12 in the ratio 5 : 19

b. Divide 34 in the ratio 2 : 5 : 3

c. Divide 42 in the ratio 3 : 4 : 5

3.

A decorator needs 65 litres of pink paint.

Pink paint is made using red and white paint in the ratio 4 : 9

A 3 litre tub of white paint costs £4

A 2 litre tub of red paint costs £5.50

How much will the decorator need to pay to buy enough paint?

4.

At a charity rugby match, the ratio of adults to children is 8 : 3

There are 55,000 people watching in the stadium.

Adult tickets cost £12 and child tickets cost £5.

65% of ticket sales are going to the charity.

How much money does the charity receive?

5.

Igor won £75 as a prize.

He gave 80% of the money to Daphne and Harriet.

Daphne and Harriet share their money in the ratio 3 : 7

After receiving her money, Harriet gave Igor £12 from her share.

How much money do they each get?

6.

In a school, all students study one humanities subject: Geography, RE or History.

The ratio of students studying Geography, RE and History is 8 : 5 : 3

21 History students and 38 Geography students are female.

There are 176 students in year 7, in a male to female ratio of 5 : 6.

How many male students study RE in year 7?

7.

At a school concert, 154 students are taking part.  
The ratio of boys to girls is 5 : 6  
The students can either sing or dance in the concert.  
The ratio of girls singing to dancing is 2 : 1  
The ratio of all students singing to dancing is 4 : 3  
How many boys dance in the concert?

9.

185 counters in a bag are either blue, red or yellow.  
The ratio of blue counters to red counters is 5 : 3  
The ratio of red counters to yellow counters is 2 : 7  
How many counters are red?

8.

Raj sells 252 bags of sweets each week.  
They come in three different flavours: mint, toffee and lemon.  
The ratio of mint, toffee and lemon sweets 12 : 7 : 9  
The price of mint sweets is two times the price of toffee sweets.  
The price of toffee sweets is three times the price of lemon sweets.  
His weekly income is £1468.80  
Work out the cost of each bag of sweets.

10.

Poppy has £145, Lily has £65 and Daisy has £30  
Poppy gives some money to Lily and Daisy.  
The ratio of the money Poppy, Lily and Daisy now have is 3 : 2 : 1  
How much money did Poppy give to each girl?

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