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

Here is his working.

$$120 \div 3 = 40 \qquad 120 \div 5 = 24$$

Rob's working is not correct.

Describe what Rob has done wrong.

....

....

....

(Total for Question 1 is 1 mark)

2 The ratio of the number of boys to the number of girls in a school is $4:5$
There are 95 girls in the school.

Work out the total number of students in the school.

....

(Total for Question 2 is 3 marks)

3 A football team played 55 games.
Each game was won, drawn or lost.

number of games won : number of games drawn : number of games lost $= 6:3:2$

Work out how many more games the team won than the team lost.

....

(Total for Question 3 is 3 marks)

4 Anna and Lionel share \$675 in the ratio 4 : 5

Lionel gives $\dfrac{3}{5}$ of his share of the money to his mother.

How much money does Lionel give to his mother?

\$...

(Total for Question 4 is 3 marks)

5 There are 60 people in a choir.
Half of the people in the choir are women.

The number of women in the choir is 3 times the number of men in the choir.
The rest of the people in the choir are children.

the number of children in the choir : the number of men in the choir $=$ n : 1

Work out the value of n.
You must show how you get your answer.

$n =$ ....

(Total for Question 5 is 4 marks)

6 There are 60 children in a club.

In the club, the ratio of the number of girls to the number of boys is $3:1$

$\dfrac{3}{5}$ of the girls play a musical instrument.

$\dfrac{4}{5}$ of the boys play a musical instrument.

What fraction of the 60 children play a musical instrument?

(Total for Question 6 is 4 marks)

7 Pieter owns a currency conversion shop.

Last Monday, Pieter changed a total of 20 160 rand into a number of different currencies.

He changed $\frac{3}{10}$ of the 20 160 rand into euros.

He changed the rest of the rands into dollars, rupees and francs in the ratios $9:5:2$

Pieter changed more rands into dollars than he changed into francs.

Work out how many more.

.... rand

(Total for Question 7 is 4 marks)

8   Work out the difference between the largest share and the smallest share when 3450 yen
is divided in the ratios $2:6:7$

.... yen

(Total for Question 8 is 3 marks)

9   Frank, Mary and Seth shared some sweets in the ratio $4 : 5 : 7$
Seth got 18 more sweets than Frank.

Work out the total number of sweets they shared.

....

(Total for Question 9 is 3 marks)

10 Brendon, Asha and Julie share some money in the ratios 3 : 2 : 6
The **total** amount of money that Asha and Julie receive is $36

Work out the amount of money that Brendon receives.

$..

(Total for Question 10 is 3 marks)

11 C grams of chocolate is shared in the ratios $2 : 5 : 8$
The difference between the largest share and the smallest share is 390 grams.

Work out the value of C

$C = $ ....

(Total for Question 11 is 3 marks)

12 Danil, Gabriel and Hadley share some money in the ratios $3:5:9$

The difference between the amount of money that Gabriel receives and the amount of money that Hadley receives is 196 euros.

Work out the amount of money that Danil receives.

.... euros

(Total for Question 12 is 3 marks)

---

13 Rosie, Matilda and Ibrahim collect stickers.

$$\text{number of stickers Rosie has} : \text{number of stickers Matilda has} : \text{number of stickers Ibrahim has} = 4:7:15$$

Ibrahim has 24 more stickers than Matilda.

Ibrahim has more stickers than Rosie.
How many more?

....

(Total for Question 13 is 3 marks)

14 Andreas, Isla and Paulo share some money in the ratios 3 : 2 : 5

The **total** amount of money that Isla and Paulo receive is £76 more than the amount of money that Andreas receives.

Andreas buys a video game for £48.50 with some of his share of the money.

Work out how much money Andreas has left from his share of the money when he has bought the video game.

£...

(Total for Question 14 is 4 marks)

15 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 x years old.

Find the value of x.

$x =$ ....

(Total for Question 15 is 3 marks)

16 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 16 is 4 marks)

17 There are some people in a cinema.

$\frac{3}{5}$ of the people in the cinema are children.

For the children in the cinema,

number of girls : number of boys = 2 : 7

There are 170 girls in the cinema.

Work out the number of adults in the cinema.

....

(Total for Question 17 is 5 marks)

18 £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 18 is 4 marks)

19 120 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.

$\dfrac{16}{25}$ 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 19 is 6 marks)