Name: _____

GCSE (1 – 9)

Sharing Ratio

Instructions

• Use **black** ink or ball-point pen.
• Answer all questions.
• Answer the questions in the spaces provided
– *there may be more space than you need.*
• Diagrams are **NOT** accurately drawn, unless otherwise indicated.
• You must **show all your working out.**

Information

• The marks for each question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

• Read each question carefully before you start to answer it.
• Keep an eye on the time.
• Try to answer every question.
• Check your answers if you have time at the end

1 Will and Olly share £80 in the ratio 3 : 2

Work out how much each of them get.

Will   £...

Olly   £...

(Total for question 1 is 3 marks)

2 Molly, Paige and Demi share 42 sweets in the ratio 3 : 2 : 1

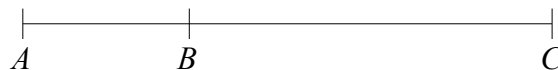Work out the number of sweets that each of them receives.

Molly .... sweets

Paige .... sweets

Demi .... sweets

(Total for question 2 is 3 marks)

3 *ABC* is a straight line.

The length of *BC* is three times the length of *AB*.

AC = 80 metres.
Work out the length *BC*.

.... metres

(Total for question 3 is 3 marks)

4 Carly and James share some money in the ratio 5 : 3
Carly gets £70 more than James.

Work out how much money James gets.

£ ....

(Total for question 4 is 3 marks)

5 Jerry and Mick share some money in the ratio 2 : 3
Mick gets £900

Work out how much money Jerry gets.

£ ....

(Total for question 5 is 3 marks)

6 Ali and Steve share some sweets in the ratio 2 : 7
Steve gets 30 more sweets than Ali.

Work out how many sweets Steve gets.

....

(Total for question 6 is 3 marks)

7 Dave is making cookies.
He mixes flour, butter and sugar in the ratio 6 : 4 : 1

Dave uses 160 grams of butter.
Work out how much flour and sugar Dave uses.

flour .... grams

sugar .... grams

(Total for question 7 is 3 marks)

8 Alvin and Simon shared £540 in the ratio 4 : 5

Alvin gave half of his share to Theo.
Simon gave a tenth of his share to Theo.

What fraction of the £540 did Theo receive?

....

(Total for question 8 is 3 marks)

9 *ABC* is a straight line.

The length of *BC* is four times the length of *AB*.

BC = 100 metres.
Work out the length *AC*.

.... metres

(Total for question 9 is 3 marks)

10   Bob is going to make some orange paint.
He needs to mix red paint, yellow paint and white paint in the ratio 5 : 4 : 1

Bob wants to make 750 m*l* of orange paint.

Bob has

        400 m*l* of red paint
        300 m*l* of yellow paint
        200 m*l* of white paint

Does Bob have enough red paint, yellow paint and white paint to make the orange paint?
You must show all your working.

(Total for question 10 is 4 marks)

11   Megan is going to make a drink using the instructions below.

> Mix 2 parts of fruit juice
> with 5 parts of sparkling water

Megan has 180 m*l* of fruit juice and 400 m*l* of sparkling water.

What is the greatest amount of the drink Megan can make?

.... m*l*

(Total for question 11 is 3 marks)

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

The table shows the probability of getting a red counter.

Colour	Red	Blue	White
Probability	0.35		

the number of blue counters : the number of white counters = 2 : 3

Complete the table.

<div align="right">(Total for question 12 is 4 marks)</div>

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13 Al, Tom and Joe share €3000.

The ratio of the amount Al gets to the amount Tom gets is in the ratio 5 : 4
Joe gets 1.5 times the amount Tom gets.

Work out the amount of money that Tom gets.

<div align="right">€ ....</div>

<div align="right">(Total for question 13 is 4 marks)</div>

14 Harry and Gary have a total of 300 stickers.
The ratio of the number of stickers Harry has to the ratio of the number of stickers Gary has is in the ratio 7 : 3

Harry gives Gary some stickers.
The ratio of the number of stickers Harry has to the ratio of the number of stickers Gary has is now in the ratio 8 : 7

Work out how many stickers Harry gives to Gary.
You must show all your working.

15 A shop sells small chocolate bars and large chocolate bars.

There are
    small chocolate bars are sold in packs of 4
    large chocolate bars are sold in packs of 9

On one day

the number of packs of small chocolate bars sold : the number of packs of large chocolate bars sold = 5 : 2

A total of 95 chocolate bars were sold.

Work out the number of small chocolate bars sold.