

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

Work out how much each of them get.

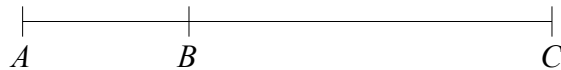
(3 marks)

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.

(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 .

(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.

(3 marks)

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

Mick gets £900

Work out how much money Jerry gets.

(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.

(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.

(3 marks)

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

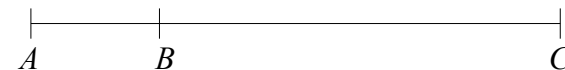
Alvin gave half of his share to Theo.

Simon gave a tenth of his share to Theo.

What fraction of the £540 did Theo receive?

(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 .

(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.

(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?

(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

Find the probability of getting a blue counter and a white counter.

(4 marks)

- 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.

(4 marks)

- 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.

(4 marks)

- 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 190 chocolate bars were sold.

Work out the number of small chocolate bars sold.

(4 marks)