

Sharing in a Ratio

For Pearson Edexcel GCSE Mathematics (1MA1) • Foundation tier

Name _____

Total marks: **25**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

- 1** A school raised £1240 at a summer fair.
The money is shared in the ratio 5 : 2 : 1 between an animal shelter, a food bank and a hospice.
How much money does the food bank get?

£
(2)

(Total for Question 1 is 2 marks)

- 2** A plank of wood is 180 cm long.
It is cut into three pieces with lengths in the ratio 2 : 3 : 4
Work out the length of each piece.

(3)

(Total for Question 2 is 3 marks)

- 3** On a tram, the ratio of the number of passengers sitting to the number of passengers standing is 5 : 2

(a) What fraction of the passengers are standing?

.....
(1)

(b) There are 14 passengers standing.
Work out the total number of passengers on the tram.

.....
(2)

(Total for Question 3 is 3 marks)

- 4** Ieuan makes 2 kg of trail mix.
He mixes raisins, peanuts and chocolate chips in the ratio 5 : 3 : 2 by mass.

(a) Work out the mass of each ingredient he uses.

(2)

(b) Peanuts are sold in 250 g bags.
How many bags of peanuts does Ieuan need to buy?

.....
(1)

(Total for Question 4 is 3 marks)

- 5** A badminton club has junior members and adult members only.
The ratio of the number of junior members to the number of adult members is 3 : 8
There are 24 junior members.
- Work out the number of adult members.

.....
(2)

(Total for Question 5 is 2 marks)

- 6** 312 people took part in a charity walk.
Each person walked either the 10 km route or the 5 km route.
The ratio of the number of people on the 10 km route to the number of people on the 5 km route was 7 : 5
- How many more people walked the 10 km route than the 5 km route?

.....
(3)

(Total for Question 6 is 3 marks)

- 7** A box contains red, white and yellow tulip bulbs in the ratio 2 : 5 : 4
There are 42 red and yellow bulbs altogether.

Work out the total number of bulbs in the box.

.....
(3)

(Total for Question 7 is 3 marks)

- 8** The ratio of the price of a child session to the price of an adult session at a climbing wall is 3 : 5
An adult session costs £1.60 more than a child session.

Work out the total cost of 1 adult session and 4 child sessions.

£
(3)

(Total for Question 8 is 3 marks)

- 9 Ffion and Rhodri share some money in the ratio 3 : 5
Rhodri then gives £12 of his share to Ffion.
They now have the same amount of money.
How much money did they share?

£
(3)

(Total for Question 9 is 3 marks)
