

Finding amounts from a ratio when one part is known

Grade 4 | Foundation and Higher | 14 questions, 51 marks

GCSE Maths topic practice



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Name: _____ **Date:** _____ **Score:** _____ / 51

- 1** A recipe for flapjacks uses oats and butter in the ratio 5 : 2.

Beth uses 350 g of oats.

Work out how much butter she needs.

(2 marks)

Answer _____

- 2** A bag contains red, blue and green counters in the ratio 2 : 3 : 5.

There are 12 blue counters.

Work out the total number of counters in the bag.

(3 marks)

Answer _____

- 3** In a gym class, the ratio of the number of men to the number of women is 4 : 5.

There are 20 men in the class.

Work out the total number of people in the class.

(2 marks)

Answer _____

- 4** Dev, Ella and Farid share some money.

The ratio of Dev's money to Ella's money is 1 : 3. The ratio of Ella's money to Farid's money is 3 : 2.

Ella has £45.

Work out how much money Farid has.

(3 marks)

Answer _____

5 In a fruit bowl there are apples, bananas and pears.

The ratio of apples to bananas is 3 : 2.

The ratio of bananas to pears is 4 : 3.

There are 24 apples in the bowl.

Work out the number of pears in the bowl.

(3 marks)

Answer _____

6 Ella, Fred and Grace share some money in the ratio 3 : 5 : 8.

Grace gets £35 more than Ella.

Work out the total amount of money they share.

(4 marks)

Answer _____

7 Aisha, Ben and Chloe share £420.

The ratio of Aisha's share to Ben's share is 2 : 3. The ratio of Ben's share to Chloe's share is 4 : 5.

Work out how much each person gets.

(4 marks)

Answer _____

8 A school buys pens in packs of 12 and pencils in packs of 20.

The ratio of the number of packs of pens to the number of packs of pencils bought is 5 : 2.

Show that the ratio of the number of pens to the number of pencils bought is 3 : 2.

(4 marks)

Answer _____

- 9 The ratio of the amount of money Priya has to the amount of money Quinn has is 7 : 5.

Priya gives Quinn £18.

Now they each have the same amount of money.

Work out how much money Priya had originally.

(4 marks)

Answer _____

- 10 Mo and Nia share £480 in the ratio 5 : 3.

Mo then gives £30 to Nia.

Work out the ratio of Mo's money to Nia's money now. Give your answer in its simplest form.

(4 marks)

Answer _____

- 11 In a box, the ratio of the number of red counters to the number of blue counters is 4 : 7.

12 more red counters are put into the box.

The ratio of the number of red counters to the number of blue counters is now 2 : 3.

Work out the number of blue counters in the box.

(4 marks)

Answer _____

- 12 Ravi, Sunita and Tom share £600 in the ratio 2 : 3 : 5.

Ravi gives 25% of his share to Tom. Sunita gives $\frac{1}{3}$ of her share to Tom.

Work out how much money Tom has now.

(5 marks)

Answer _____

- 13** Leah and Sam share £480 in the ratio 5 : 7.
Sam gives 30% of his share to charity.
Leah gives £60 of her share to charity.
Sam gives more money to charity than Leah does.
Work out how much more.

(5 marks)

Answer _____

- 14** A school has four classes, A, B, C and D, entering a competition.
The ratio of the number of pupils in A to the number in B is 2 : 3. The ratio of the number in B to the number in C is 6 : 5. The ratio of the number in C to the number in D is 10 : 7.
There are 21 pupils in class D.
Work out the number of pupils in class A.

(4 marks)

Answer _____

End of questions | Total 51 marks