

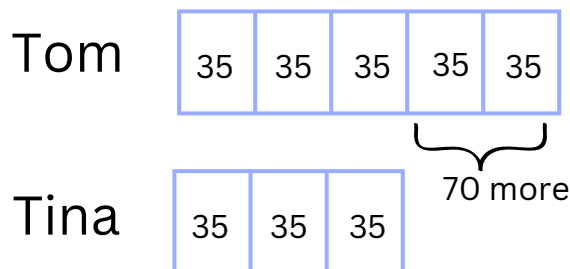
GCSE Predicted Topic Questions

Sharing Ratio

Example 1

Tom and Tina share some money in the ratio of 5:3. Tom gets £ 70 more than Tina. Work out how much money Tina gets?

Solution:



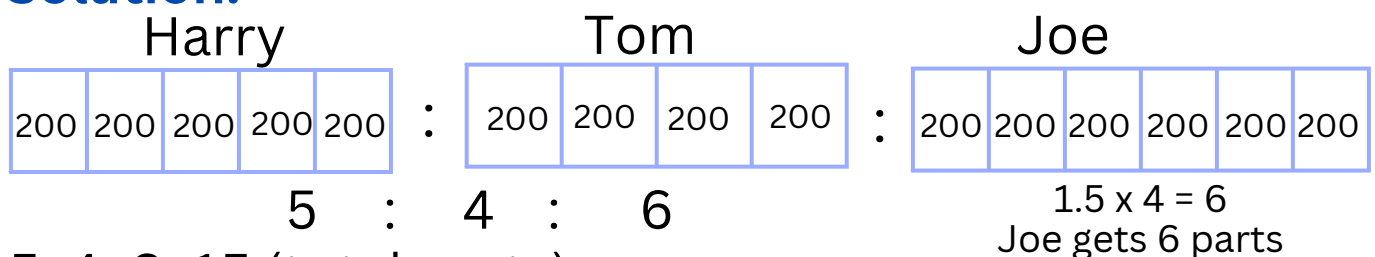
$$70 \div 2 = 35$$

$$\text{Tina get } 3 \times 35 = \text{£ } 105$$

Example 2

Harry, Tom and Joe shared £ 3000. The ratio of the amount Harry 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?

Solution:



$$5 + 4 + 6 = 15 \text{ (total parts)}$$

$$3000 \div 15 = 200$$

Tom get 200×4 parts

$$200 \times 4 = \text{£ } 800$$

GCSE Predicted Topic Questions

Example 3

Alvin and sami shared £ 540 in the ratio 4:5.

Alvin gave half of his share to Theo.

Sami gave a tenth of his share to Theo.

What fraction of the £ 540 did Theo receive?

Solution:

$$4+5=9$$

$$540 \div 9 = 60$$

Alvin

Sami

60	60	60	60	:	60	60	60	60	60
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Alvin $4 \times 60 = 240$

Sami $5 \times 60 = 300$

Theo gets $\frac{1}{2}$ of $240 = 120$ from Alvin

Theo gets $\frac{1}{10}$ of $300 = 30$ from Sami

Theo gets total £ 150 ($120 + 30 = 150$)

Now express in fraction

$$\frac{150}{540} = \frac{15}{54} = \frac{5}{18}$$

GCSE Predicted Topic Questions

Sharing Ratio

- 1 Alex and Olly share 30 sweets. They divided them in the ratio 3:2
Work out how much sweets each of them get?

Alex sweets

Olly sweets

(Total for question 1 is 3 marks)

- 2 Jerry and Mick share some money in the ratio of 3:5. Mick gets £12 more than Jerry.
Work out how much money Mick gets?

(Total for question 2 is 3 marks)

GCSE Predicted Topic Questions

- 3 Bob and Dave shared £280 in the ratio 3:4.
Bob gave half of his share to Steve.
Dave gave one fourth of his share to Steve.
What fraction of the £280 did Steve receive?

(Total for question 3 is 3 marks)

- 4 Molly, Demi and Will share £3000 in the ratio of 1:2:3.
Workout how much money each of them get?

Molly £.....
Demi £.....
Will £.....

(Total for question 4 is 3 marks)

GCSE Predicted Topic Questions

- 5 Carly, Tom and James shared £ 2800. The ratio of the amount Carly gets to the amount Tom gets is in the ratio 5:2. James gets 1.5 times the amount Tom gets.

Workout the amount of money that Toms get?

(Total for question 5 is 4 marks)

- 6 The ratio of Thomas age to Sam's age is 7:3. Thomas is 28 years older than Sam. How old is Thomas?

(Total for question 6 is 3 marks)

GCSE Predicted Topic Questions

- 7 The ratio of blue pens to black pens in a box is 3:5.

What fraction of the pens are black?

What fraction of the pens are blue?

(Total for question 7 is 3 marks)

- 8 Ali and Steve shares some money in the ratio of 3:4.

Steve gets £800.

Workout how much money Ali gets?

(Total for question 8 is 3 marks)

GCSE Predicted Topic Questions

- 9 The ratio of adults to childrens at a circket match is 5:3. There are 80 people at the match.
How much adult and children attend the circket match?

(Total for question 9 is 3 marks)

- 10 Molly, Paige and Demi shared £ 4500. The ratio of the amount Molly gets to the amount of Paige gets is in the ratio 3:4. Demi gets half the amount Paige gets.
Workout the amount of money Paige get?

(Total for question 10 is 4 marks)
