



Maths-it Podcast F-06

Foundation GCSE Revision

Ratio and proportion

Topics

Use ratio notation – Simplify a ratio – Divide into a given ratio
Solve word problems about ratio and proportion

Questions

1. Sydney has 28 DVDs and 42 CDs.

Write down the ratio of the number of DVDs to the number of CDs.
Give your ratio in its simplest form.



2. Einstein, Fermat and Galileo share £132 in the ratio 3:5:4

Calculate the amount of money Fermat gets.

.....
(Total 2 marks)



3. A map has a scale 1 cm : 5 km

AB is a distance on the map.



By measuring AB, work out the real distance, in km, from A to B.

£.....
(Total 3 marks)

4. £70 is shared between Bruce and Wayne in the ratio 5 : 2.

Wayne thinks he should get £28 but Ron thinks he should get £8 less.

Explain who is correct, giving a reason for your answer.

.....
.....
.....

(Total 2 marks)





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5. The ratio of girls to boys in a school is 4 : 5

(a) What fraction of these students are boys?



.....

(2)

In Year 11 the ratio of girls to boys is 4 : 3
There are 120 girls in Year 11.

(b) Work out the number of boys in Year 11.

.....

(2)

(Total 4 marks)

6. This is a recipe for making Honey cake for 4 people.

<p>Honey Cake Ingredients for 4 people</p> <ul style="list-style-type: none">• 250g clear honey• 220g butter• 100g dark muscovado sugar• 4 medium eggs• 300g self-raising flour
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Milo is making Honey cake for 10 people.
Work out the amount he needs.

..... g of honey

..... g of butter

..... g of sugar

..... eggs

..... g of flour

(Total 3 marks)



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7. Christiano bought 13 pairs of underpants for a total cost of £103.35.
Carlos bought 7 pairs of underpants.
The cost of each pair of underpants bought by Christiano and Carlos was the same.
Work out how much Carlos paid for his 7 pairs of underpants.

£

(Total 2 marks)

8. The cost of 4 kg of broccoli is £5.52
The total cost of 3 kg of broccoli and 2.5 kg of carrots is £5.69
Work out the cost of 1 kg of carrots.
Give your answer in pence.

..... p

(Total 3 marks)