## **GCSE Maths**

## **Numbers**

**Ratio and Proportion** 

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Date:

## **Materials**

You can use a calculator for these questions



## **Tips**

Show how you worked out the answer if you can.

	le Questions	
•	Share £60 in the ratio 2:1.	
	Answer	[1 mark]
2.	Simplify the ratio 12:16.	
	Answer	[1 mark]
3.	A drink is made by mixing orange juice and water in the rational How much water is needed if there is 9 litres of orange juice	
	Answer	[1 mark]
ļ.	A recipe requires flour and sugar in the ratio 4:3. If 200g of flour is used, how much sugar is needed?	
	Anguar	
	Answer  A school has 150 boys and 100 girls.  Write the ratio of boys to girls in its simplest form.	[1 mark]

∕ledi	ium Questions	
<b>.</b>	Divide 72 in the ratio 5:4.	
	Answer	[2 mark]
7.	A map scale is 1:50,000. If two towns are 3 cm apart on the what is the real-world distance in km?	map,
	Answer	[2 mark]
3.	The ratio of red to blue counters in a bag is 7:3.  There are 35 red counters. How many blue counters are ther	re?
	Answer	[2 mark]
).	The cost of a holiday is shared between three friends in the r If the total cost is £1,200, how much does the person with the share pay?	
	Answer	· [2 mark]
LO.	A recipe uses butter and flour in the ratio 2:5. If you need 40 flour, how much butter do you need?	
	Answer	[2 mark]

Difficult Questions					
11.	A solution is made by mixing acid and water in the ratio 2:7. If 126 ml of water is used, how much acid is needed?				
	Answer	[3 mark]			
12.	A metal alloy contains copper and zinc in the ratio 5:3.  If a bar of the alloy weighs 640g, how much zinc does it contains	in?			
	Answer	[3 mark]			
13.	A school trip costs £450 in total and is shared among student the ratio 5:4. How much does each group pay?	s in			
	Answer	[3 mark]			
14.	Two people invest in a business in the ratio 4:7. If the total pr £3,300, how much does the person with the larger share rece				
	Answer	[3 mark]			
15.	A drink is made by mixing cordial and water in the ratio 1:8. How much cordial is needed to make 900 ml of the drink?				
	Answer	[3 mark]			