

## GCSE Maths worksheet 8

Name \_\_\_\_\_

Group \_\_\_\_\_

Don't use a calculator. Do all your working on this sheet. Answer all the questions.

1	Write the ratio 300:60 in its simplest form	
2	Four out of 10 cats are white <u>and the rest are black</u> . What is the ratio of white to black cats? Give your answer in its simplest form.	
3	Simplify the ratio 45p:£3.60 Hint: change the £ to p	
4	Nigella pours (carefully!) 200ml of molar strength $\text{H}_2\text{SO}_4$ into a beaker and then <u>adds water to make 1 litre</u> . Write the ratio of acid to water in its simplest form.	
5	Divide £600 in the ratio 1:5	
6	Kamaljit and Ian share the cost of a business trip in the ratio 3:2. The trip cost £180. Calculate Ian's share.	
7	A drink is made from orange juice and grapefruit juice in the ratio 4:1. How much orange juice do you need to make 500ml of the drink?	

8	Bill and Ben share the profits of their successful comedy act in the ratio 3:4. Ben received £2 000 last week. How much should Bill have received?	
9	Janine and Françoise divide the profits of a stall in a craft market in the ratio 2:5 to reflect the number of days they worked on the stall. Françoise received £600 <u>more than</u> Janine. Work out Janine's share of the profits.	
10	Michael wins £800 on the lottery. He keeps $\frac{1}{4}$ of the money for himself. He divides the remainder of the money between his nieces Meela and Mindy in the ratio 2:3. How much does Mindy receive?	
11	Electrical wire costs 60p for 2 metres. How much would 5 metres cost at the same rate?	
12	Apples are 4 for £1.08. How much would 10 apples cost at the same rate?	
13	300ml of olive oil costs £1.20 How much would 2.5 litres cost at the same rate?	