mathsgenie.co.uk Sharir		ng Ra	atio	mathsgenie.co.uk	
Matnsgenie.co.uk Snarin I Will and Olly share £80 in the ratio $3:2$ Work out how much each of them get. (3 marks) 2 Molly, Paige and Demi share 42 sweets in the ratio $3:2:1$ Work out the number of sweets that each of them receives. (3 marks) 3 ABC is a straight line. ABC is a straight line. C The length of BC is three times the length of AB.		6 7 8	Ali and Steve share some sweets in the ratio 2 : 7 Steve gets 30 more sweets than Ali. Work out how many sweets Steve gets. (3 marks) Dave is making cookies. He mixes flour, butter and sugar in the ratio 6 : 4 : 1 Dave uses 160 grams of butter. Work out how much flour and sugar Dave uses. (3 marks) Alvin and Simon shared £540 in the ratio 4 : 5 Alvin gave half of his share to Theo. Simon gave a tenth of his share to Theo.		uarks)
AC = 80 metres. Work out the length <i>BC</i> .	(3 marks)			(3 m	arks)
 4 Carly and James share som Carly gets £70 more than 3 Work out how much mone 5 Jerry and Mick share som Mick gets £900 Work out how much mon 	(3 marks) me money in the ratio 5 : 3 James. by James gets. (3 marks) e money in the ratio 2 : 3 ey Jerry gets. (3 marks)	9	ABC is a straight line. A B C The length of BC is four times the length of AB . $BC = 100$ metres. Work out the length AC . (3 marks)		uarks)
Grade 3 Sharir			atio	Grade 3	3

mathsgenie.co.uk Sharin		g Ratio		mathsgenie.co.uk			
10	Bob is going to a yellow paint and	make some of white paint	range paint. He need in the ratio 5 : 4 : 1	ls to mix red paint,	13	Al, Tom and Joe share €3000.	
	Bob wants to ma Bob has: 40 30 20	Bob wants to make 750 ml of orange paint. Bob has: 400 ml of red paint 300 ml of yellow paint 200 ml of white paint			The ratio of the amount Al 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.		
	Does Bob have a the orange paint You must show a	enough red pa ? all your work	aint, yellow paint and	d white paint to make (4 marks)	14	Harry and Gary have a total of 300 The ratio of the number of stickers of stickers Gary has is in the ratio	stickers. Harry has to the ratio of the number 7 : 3
11	Megan is going	to make a dri Mix 2 parts with 5 parts o	nk using the instruct s of fruit juice f sparkling water	ions below.		Harry gives Gary some stickers. The ratio of the number of stickers of stickers Gary has is now in the r	Harry has to the ratio of the number atio 8 : 7
	Megan has 180 r What is the grea	m <i>l</i> of fruit jui test amount c	ce and 400 m <i>l</i> of spa of the drink Megan c	arkling water. an make?		Work out how many stickers Harry You must show all your working.	gives to Gary. (4 marks)
	(3 marks)			15	15 A shop sells small chocolate bars and large chocolate bars		
12	In a bag there are only red counters, blue counters and white counters. A counter is taken at random from the bag. The table shows the probability of getting a red counter				There are small chocolate bars are sol large chocolate bars are solo	d in packs of 4 1 in packs of 9	
		Red	Blue	White		On one day	
	Probability	0.35		Winte		the number of packs of th small chocolate bars sold har	e number of packs of ge chocolate bars sold $= 5:2$
	the number of blue counters : the number of white counters = 2 : 3 Find the probability of getting a blue counter and a white counter.		A total of 190 chocolate bars were sold. Work out the number of small chocolate bars sold.				
				(4 marks)			(4 marks)
	Grade 4			Sharin	ig Ra	atio	Grade 4

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16	Dermot has 240 counters. The counters are either red, or blue, or yellow or green. 15% of the counters are red. $\frac{2}{5}$ of the counters are blue The ratio of yellow counters to green counters is 3:1 Work out the number of yellow counters Dermot has.		19	There are only red counters and green counters in a bag. number of red counters : number of green counters = 2 : 3 There are 28 red counters in the bag. Work out the total number of counters in the bag. (2 marks)		
		(4 marks)	20	Clara and Dawn have some stamps Dawn has 36 more stamps than Cla	s in the ratio $5:9$	
17	Daisy bakes 180 cakes. She bakes only chocolate cak cakes.	tes, vanilla cakes, banana cakes and lemon		Work out the number of stamps Cl	ara has.	
	20% of the cakes are chocola	te cakes.				(3 marks)
	$\frac{4}{9}$ of the cakes are vanilla cal The ratio of banana cakes to $\frac{1}{2}$	kes. lemon cakes is is 3:5	21	In a bag there are counters. The counters are all either red or b	blue or yellow.	
	work out the number of lemo	on cakes Daisy has.	C	f red counters blue counters	yellow counters	= 4:5:8
		(4 marks)		The number of yellow counters is 2 counters.	24 more than the nu	mbers of blue
18	 Each month Angelina earns £1800 after tax. Angelina saves 30% of her salary and she spends the rest. the amount Angelina spends on rent : the amount she spends on other expenses = 4 : 5 Work out how much Angelina spends on rent. 			Work out the total number of counters in the bag.		
						(3 marks)
		(4 marks)				
	Grade 4	Sharin	g Ra	atio	Gra	de 4

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22	Cameron has some coins She has only 2 pence coin The ratio number of 2 pence Work out how many 5 per Pens and pencils are sold 8 pencils cost £1.92 The ratio of the cost of a per Work out the cost of 5 per	<pre>with a total value of 95 pence. ns and 5 pence coins. e coins : number of 5 pence coins = 2 : 3 ence coins Cameron has.</pre>	24 The diagram shows triangle <i>ABC</i> . B B B B B D D D D D D D D	angle ACD = $2:3$ (4 marks)
	Grade 4	Sharin	ig Ratio	Grade 4