Name:

GCSE (1 – 9)

Ratio Problems 2

Instructions

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must show all your working out.

Information

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

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1	The ratio of dogs to cats is 5:3 The ratio of fish to dogs is 6:1		
	Find the ratio of cats to fish. Give your answer in its simplest form.		
			(Total for question 1 is 2 marks)
		1 2 2	
2	Given that $a:b = 4:5$ and $E:a + 4:5$	<i>b</i> : <i>c</i> = 3:2	
2	Given that $a:b = 4:5$ andFind the ratio $a:b:c$ Give your answer in its simplest form.	<i>b</i> : <i>c</i> = 3:2	
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3	Alfie, Bertie and Charlie share £66. The amount Alfie and Bertie get is in the ratio 9:5 The amount Bertie and Charlie get is in the ratio 2:1	
	How much does Alfie get?	
		f
		(Total for question 3 is 3 marks)
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4	Dylan, Eli and Fabian share some sweets.The amount of sweets Dylan gets to the amount of sweets Eli gets isThe amount Dylan gets to the amount Fabian gets is in the ratio 4:5	in the ratio 7:3
	Given Fabian gets 21 more sweets than Dylan.	
	Work out how many sweets Eli gets.	
		(Total for question 1 is 2 marks)

5	Given that	<i>a</i> : <i>b</i> = 3:7	and	<i>a</i> : <i>c</i> = 4:3	
	Find the ratio <i>a:b:c</i> Give your answer in its s	implest form.			
					(Total for question 5 is 2 marks)
_					(Total for question 5 is 2 marks)
6	Given that	<i>a</i> : <i>c</i> = 1:6	and	<i>b</i> : <i>c</i> = 2:5	
6	Given that Find the ratio <i>a:b:c</i> Give your answer in its s	a:c = 1:6	and	<i>b</i> : <i>c</i> = 2:5	
6	Given that Find the ratio <i>a:b:c</i> Give your answer in its s	a:c = 1:6	and	<i>b</i> : <i>c</i> = 2:5	
6	Given that Find the ratio <i>a:b:c</i> Give your answer in its s	<i>a</i> : <i>c</i> = 1:6	and	<i>b</i> : <i>c</i> = 2:5	
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6	Given that Find the ratio <i>a:b:c</i> Give your answer in its s	<i>a</i> : <i>c</i> = 1:6 simplest form.	and	b:c = 2:5	

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7 There are red sweets, blue sweets and green sweets in a bag. The ratio of red sweets to sweets that are not red is 2:3 The ratio of green sweets to sweets that are not green is 6:19	
Work out the ratio of red sweets to blue sweets to green sweets.	
(Total for question 7	is 3 marks)
8 A football team plays some games in a season. Each game was a win, a draw or a loss.	
The ratio of the games they won to the games they did not win was 9:7 The ratio of games they lost to games they did not lose was 1:7.	
Given the team played less than 50 games, work out the highest amount of games they could	d have won.

The points A, B, C and D lie in order on a straight line. 9 AB:BD = 2:5 and AC:CD = 4:7Find AB:BC:CD (Total for question 9 is 3 marks) The points A, B, C and D lie in order on a straight line. 10 AB:BD = 3:5 and AC:CD = 5:6Find AB:BC:CD (Total for question 10 is 3 marks)

11	Andy and Bruce share some sweets in the ratio 9:4. Andy gets <i>A</i> sweets Bruce gets <i>B</i> sweets
	Carla and David share the same amount of sweets as Andy and Bruce. They share their sweets in the ratio 5:2.
	Carla gets C sweets David gets D sweets
	Find A:B:C:D
	(Total for question 11 is 3 marks)
12	A and B are in the ratio 5:1 C and D are in the ratio 2:3
	Given: $A + B = 2(C + D)$
	Find A:B:C:D
	(Total for question 12 is 3 marks)

13	Glen and Harper share some money in the ratio 5:2. Glen gets $\pounds G$ Harper gets $\pounds H$
	India and Jade share the same amount of money as Glen and Harper. They share their money in the ratio 4:7.
	India gets $\pounds J$ Jade gets $\pounds J$
	Find G:H:I:J
	(Total for question 13 is 3 marks)
14	A and B are in the ratio 4:3 C and D are in the ratio 1:5
	Given: $3(A+B) = C+D$
	Find A:B:C:D
	(Total for question 14 is 3 marks)