MME

GCSE MATHEMATICS

Ratio (Foundation)

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

mathematical instruments

You *can* use a calculator.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- · Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- · The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

· In all calculations, show clearly how you work out your answer.

1(a)	If the ratio of $x: y$ is 6	5:11, and $x = 27$,			
. ,	what is the value of g	v?			
					[1 mark]
	32	33	49.5	55	
1(b)	If 200 grams of one i	ngredient is used in a	recipe, which calls for	a ratio of 4 : 7 with a	
	second ingredient, n	ow much of the second	a ingrealent is needed	ſ	[1 mark]
	203 grams	280 grams	350 grams	1400 grams	
1(0)	In a close of 12 stud	anto the rotic of mole	female is 2 · 1		
1(0)	How many females	are there?			
	,				[1 mark]
	14	28	40	42	

		`	5	
2	Consider the following tabl	e:		
		x	у	
		12	28	
		21	49	
		36	84	
		51		
			133	
2(a)	Complete the table for the	missing values.		[2 marks]
	Answer			
2(b)	Express the ratio $x : y$ in s	implest form.		[2 marks]
	Answer			

	There are 200 medals bought for a sports celebration.		
	The ratio of winning medals to participation medals is 1:4.		
.,	How many of each of the winning and participation models are there?		
1)	How many of each of the winning and participation medals are there?	10	un e ul c
		[2	marks
	Answer		
))	An additional 40 medals are purchased.		
	The ratio of winning medals to participation medals remains at 1:4.		
	5		
	Find the number of winning and participation medals there would be after the 40 medals are added		
	Find the number of winning and participation medals there would be after the 40 medals are added.	10	
	Find the number of winning and participation medals there would be after the 40 medals are added.	[2	marks
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	Find the number of winning and participation medals there would be after the 40 medals are added. Answer GCSE Maths Revision Guide © GCSE Maths Course 9-1 Revision Guide	[2	mark
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	Find the number of winning and participation medals there would be after the 40 medals are added.	[2	mark

Turn over ►

	5	
4	Terry, Alisha and Ella run on a weekly basis.	
	In total, they average 176 km a week.	
	If Alisha runs twice as far as Terry and Ella runs one third of Alisha's distance, how far do each of them run?	
		[3 marks]
	Answer	
5	A construction company needs workers for a job.	
	The ratio of general labour to management is $8:1$	
	The budget for each general labourer is $\pounds 2,500$ and $\pounds 8,200$ for each management employee.	
	There are 32 general labourers employed.	
	How much is spent on all the employees for the job?	
		[3 marks]
	Answer	
	Turn over for next question	

There is ± 80 in a pot which is shared out amongst 3 people.	
Anne gets £20, Mark gets £35 and Ben gets £25.	
What ratio of the money does each person receive?	
	[2 marl
	_
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	_
	_
Answer	
210 pakes are charad out in a ratio of $1 \cdot 2 \cdot 2$ in to groups a hand a respectively.	
210 cakes are shared out in a ratio of $1 \div 2 \div 3$ in to groups a, b and c respectively. How many cakes does each group receive?	
now many cakes does each group receive:	[2 mar
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Answer	
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8	£60 pocket money is split between three people.	
	Sally gets twice the amount of Rob and Malik gets three times more than Rob.	
8(a)	How much money does each person get?	
		[2 marks]
	Answer	
0(6)		
(D)	How much does each person get if the original amount is reduced by 50%?	
		[2 marks]
	Answer	

	7	
9	There are 24 people working in a kitchen,	
	4 men below the age of 18	
	4 women below the age of 18,	
	8 women above the age of 18	
	8 men above the age of 18	
9(a)	What proportion of the people in the kitchen were male?	
	Give your answer as a fraction in its simplest form.	
		[1 mark]
	Answer	
9(b)	Find the ratio of women below the age of 18, compared to the total numbers of workers in the kitchen.	
	Give your answer in its simplest form.	
		[2 marks]
	Answer	
	End of Questions	