MME

GCSE MATHEMATICS AQA | Edexcel | OCR | WJEC

Prime Factors, HCF, and LCM

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.

			2			
1	Look at the numbers in the rectangle below.					
		5	12	27	7	
		29	17	2	25	
		24	18	8	1	
		16	3	49	125	
1(a)	Write dow	n the prime num	nbers.			[1 mark]
		Answer				
1(b)	Define a p	rime number.				
						[1 mark]
		Anouar				
		Answei				
Turn over for next question						



3(a)	Write 72 as a product of its prime factors.	
-(-)	Give your answer in index form.	
		[2 marks]
	Answer	
3(b)	Write 90 as a product of prime factors.	
	Give your answer in index form.	
		[2 marks]
	Answer	
3(c)	Write 160 as a product of its prime factors	
	Give your answer in index form.	
		[2 marks]
	Answer	
	Turn over for next question	
	rum over for next question	



4(d)	Find the HCF of 1620 and 420	[1 mark]
		-
	Answer	-
4(e)	Find the LCM of 3 and 7	[1 mark]
		-
		-
	Answer	
	 Construction Construction<	

5	Find the HCF and LCM of 126 and 234	[3 marks]
	HCF =	
	LCM =	
	Turn over for next question	

x and y are two positive numbers greater than 21 The HCF of x and y is 21. The LCM of x and y is 210 Find x and y

6

[3 marks]





GCSE Maths Practice Exam Papers

- GCSE Maths predicted papers and mark schemes
- Paper 1, 2, 3 and mark scheme in every set

y =

All exam boards - AQA, OCR, Edexcel, WJEC





7	a, b, c and d are prime numbers			
	Find the HCF and LCM of $10a^2h$	b^3c and $5ab^2cd$		
				[3 marks]
				-
				-
				_
				-
				-
				_
	HCF =			
			_	
	LCM =		_	
		End of Questions		
				END