Centre No.			Pape	er Refer	ence			Surname			Initial(s)
Candidate No.		1 3	8	0	/	3	H	Signature	:		
	Paper Reference(s) <b>1380/3H</b>	-								Exam	iner's use only
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	Mather	natics	(Li	ine	ar)	) —	138	80			
	Paper 3		-		-					1	
	Surd	ls ai	ıd		n	di	ce	S			
	Past Pape	r Quest	ions								
	Arranged	by Top	ic								
	Materials requin Ruler graduated i millimetres, protr pen, HB pencil, e Tracing paper ma	n centimetres ractor, compas raser.	and	- <u>Ite</u> Ni		clude	l with	question	papers		
Instructions to	Candidates										
In the boxes abo Check that you l	ve, write your centre n have the correct question	on paper.							e	ure.	

You must NOT write on the formulae page. Anything you write on the formulae page will gain NO credit. If you need more space to complete your answer to any question, use additional answer sheets.

## **Information for Candidates**

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 24 pages in this question paper. Any blank pages are indicated. **Calculators must not be used.** 

## **Advice to Candidates**

Show all stages in any calculations. Work steadily through the paper. Do not spend too long on one question. If you cannot answer a question, leave it and attempt the next one. Return at the end to those you have left out.

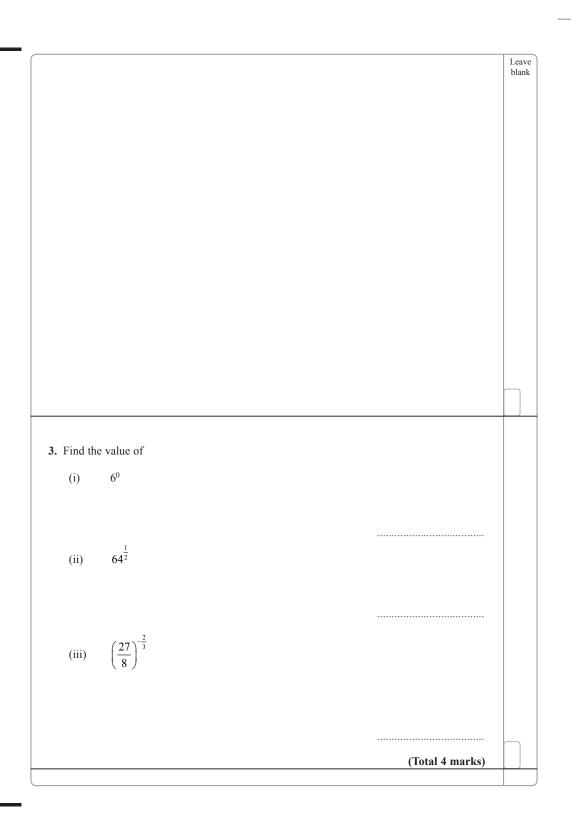




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		Leave
		blank
• Work out $(2 + \sqrt{3})(2 - \sqrt{3})$		
Give your answer in its simplest form.		
		Q1
	(Total 2 marks)	

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1		
<b>2.</b> (a) Write down the value of $49^{\frac{1}{2}}$		
	(1)	
	(-)	
(b) Write $\sqrt{45}$ in the form $k\sqrt{5}$ , where k is an integer.		
	(1)	Q2
	(Total 2 marks)	



<b>4.</b> (a) Simplify $4p \times 5q$		Leave blank
	(1)	
(b) Simplify $d \times d \times d \times d$		
(c) Expand $4(3a-7)$	(1)	
	(2)	
(d) Expand and simplify $2(2n+3) + 3(n+1)$		
	(2)	
(e) Simplify $t \times t^2$		
	(1)	
(f) Simplify $m^5 \div m^3$		
	(1) (Total 8 marks)	Q4

		Leave
		blank
5. (a) Simplify $p^5 \times p^4$		
	(1)	
(b) Simplify $q^5 \div q^2$		
(b) Simplify $q \cdot q$		
	(1)	
	(-)	
(c) Simplify $12tu^6 \div 6tu^5$		
	(2)	
$1 \leq \frac{1}{2}$		
(d) Simplify $(9w^2y^6)^{\frac{1}{2}}$		
	(2)	
	(2)	
(a) For $n > 1$ , write the following expressions in order of size		
<ul><li>(e) For x &gt; 1, write the following expressions in order of size.</li><li>Start with the expression with the least value.</li></ul>		
$x^0$ $x^2$ $x$ $x^{-2}$ $x^{\frac{1}{2}}$		
	(2)	Q5
	(Total 8 marks)	

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i,

6. (a) Simplify	$m^3 \times m^4$		Leave blank
		(1)	
(b) Simplify	$p^7 \div p^3$		
		(1)	
(c) Simplify	$4x^2y^3 \times 3xy^2$		
		(2) (Total 4 marks)	Q6

			Leave blank
7. (a) Expand and simple	lify $3(x+4) + 5(2x+1)$		
		(2)	
(b) Simplify $t^4$	$1 \times t^6$		
		(1)	
(c) Simplify p	$^{8} \div p^{5}$		
		(1)	
(d) Simplify (x	$(t^4)^3$		
	,		
			Q7
		(Total 5 marks)	

		Leave blank
<b>B.</b> (a) Simplify $t^6 \times t^2$		
$m^8$	(1)	
(b) Simplify $\frac{m^8}{m^3}$		
	(1)	
(c) Simplify $(2x)^3$		
(0) Simplify (20)		
	(2)	
(d) Simplify $3a^2h \times 4a^5h^4$		
	(2)	Q8
	(Total 6 marks)	

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