

GCSE MATHEMATICS AQA | Edexcel | OCR | WJEC

Powers and Roots

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(a)	Simplify $a^2 \times a^4$	[1 mark]
	Answer	
1(b)	Simplify $\frac{b^6}{b^3}$	[1 mark]
	Answer	
1(c)	Work out 4×2^3	[1 mark]
	Answer	
	Turn over for next question	



	4	
3(a)	Simplify $n^7 \times n$	[1 mark]
	Answer	
6(b)	Simplify $\frac{p^6}{n^5}$	
	P	[1 mark
	Answer	
(c)	Simplify $(2q^4)^5$	[2 marks
	Answer	

4(a)	Simplify $(3n^2)^3$	[2 marks]
		_
	Answer	_
4(b)	Simplify $(ag^7)^{14}$	
		[2 marks]
		_
	Answer	_
	Turn over for next question	

Turn over ►

5(a)	Simplify $(9t^4)^2$	[2 marks]
		-
	Answer	_
5(b)	Simplify $\frac{24x^4y^{10}}{6x^2y^7}$	12 markal
		[2 marks]
		-
	Answer	-
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6(a)	Simplify $7a^2b^3 \times 8a^4b^6$	[2 marks]
	Answer	
6(b)	Simplify $8a^4b^6 \div 2a^2b^3$	[2 marks]
	Answer	
6(c)	Simplify $(2ab)^2 \times 2a^4b^6$	[2 marks]
	Answer	
	End of Questions	