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Lite GCSE Maths Rules of Indices		Name:	
		Class:	
Author:			
Date:			
Time:	28		
Marks:	26		
Comments:			

Q1.	((a) Simplify $m^3 \times m^5$		
			Answer	(1)
	(b)	Simplify $\frac{m^4}{m^6}$	Answer	
				(1)
	(c)	Simplify fully $\sqrt{\frac{\pi a^3}{4\pi a}}$		
			Answer	(2) (Total 4 marks)
				(
Q2.		(a) Work out $4^{\frac{1}{2}} \div 6^{-2}$		
			Answer	(3)
	(b)	Write 1.38 as an improper fractio	n.	
			Answer	(2) (Total 5 marks)

Q3.	E	Evaluate $25^{\frac{1}{2}} \times 10^{-2}$		
		your answer as a fraction in its si	mplest form.	
			Anguar	
			Answer	(Total 3 marks)
Q4.		$\chi^a \times \chi^b = \chi^7$		
		$(x^a)^b = x^{10}$		
	Work	cout the values of a and b.		
			Answer <i>a</i> =, <i>b</i> =	(Total 3 marks)
Q5.	(;	a) Write down the value of 11°		
			Answer	(1)
		2		(-7
	(b)	Find the value of $8^{\frac{2}{3}}$		
			Answer	(2)

	(c)	Simplify 6 ⁻² x 144 ^{0.5}	
		Answer	
			(3) (Total 6 marks)
			,
Q6.		Evaluate	
	(a)	$\frac{1}{36^{\frac{1}{2}} \times 4^{-1}}$	
	` ,		
		Answer	
		Answer	(3)
		2	
	(b)	$1000^{-\frac{2}{3}}$	
		Answer	
			(2) (Total 5 marks)