## Algebra: Quadratics, Rearranging Formulae and Identities Calculator 10 minute test 4

Answer all questions.				
1		Tick the statements below that are the same as the answer to $a^8 \times a^4$ .	[2 marks]	
1	(a)	$2a^{12}$		
1	(b)	$\frac{a^{15}}{a^3}$		
1	(c)	$\frac{a^8}{a^4}$		
1	(d)	$(a^4)^3$		
2		Factorise $x^2 - 100$	[1 mark]	
			[·]	
		Answer		
3		Expand and simplify $(x + 17)(x - 13)$	[2 marks]	
		Answer		

4	Show that $(a + b)^2 - 2ab \equiv a^2 + b^2$	[2 marks]
	Answer	
5	Here is a formula: $v = \sqrt{u^2 - 2as}$	
	Work out the value of $v$ when $u=5$ , $a=0.5$ and $s=-3$ Give your answer to 3 significant figures.	[3 marks]

Answer \_\_\_\_\_