Q	Marking instructions	AO	Marks	Typical solution
4	Take logs to the same base of both sides of the equation PI $2x + 5 = \log_5 12^{100}$	1.1a	M1	$\log_5 5^{2x+5} = \log_5 12^{100}$
	Uses power law correctly to express $\log_a b^k = k\log_a b$ where $a \neq b$	1.1a	M1	$2x + 5 = \log_5 12^{100}$ $x = \frac{100\log_5 12 - 5}{2}$
	Obtains AWRT 74.7	1.1b	A1	$x = 74.7$
	Question 4 Total		**3**	