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11	1c	Solve $2^{2x+1} = 32$.	2
$2^{2x+1} = 32$ $2^{2x+1} = 2^5$ $\therefore 2x + 1 = 5$ $2x = 4$ $x = 2$			State Mean: 1.74/2

* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by the Board of Studies

Board of Studies: Notes from the Marking Centre

Nearly as many candidates approached this question by taking logarithms of both sides compared to writing 32 as 2^5 and equating indices. A number of candidates misread the question as $2^{x+1} = 32$. Many candidates incorrectly manipulated the expression involving logarithms to obtain $x = \frac{\log(32)}{2\log(2)} - 1$ or incorrectly divided by 2 to obtain $2x + 1 = 16$. Some candidates did not use the same base for the logarithm on each side of the equation.

Source: http://www.boardofstudies.nsw.edu.au/hsc_exams/