

5		<p>$2^n - 1$ correctly evaluated for any odd positive integer</p> <p>$2^n - 1$ correctly evaluated for any odd positive integer for which Tom's conjecture is false</p> <p>eg 511 is divisible by 7 with 9 seen [so not prime]</p>	<p>B1</p> <p>B1</p> <p>B1</p>	<p>1.1</p> <p>2.1</p> <p>2.2a</p>	<p>$n \geq 3$</p> <p>B0 if only rounded number in standard form seen</p> <p>eg $2^9 - 1 = 511$, eg $2^{15} - 1 = 32767$ eg $2^{21} - 1 = 2097151$</p> <p>NB 32767 and 2097151 both divisible by 7; 2047 divisible by 23</p> <p>correct value of n may be embedded in formula</p> <p>NB B0 if answer spoiled by eg so 511 is prime</p>
			[3]		