Question	Working	Answer	Mark	Notes
12 (a)	$2^7 \times \left(2^2\right)^5 = \left(2^2\right)^x$ oe eg $2^7 \times 2^{10} = 2^{2x}$ or $\left(4^{\frac{1}{2}}\right)^7 \times 4^5 \left[= (4)^x\right]$ oe or LHS written as 2^{17}		2	M1 writing 4^5 and 4^x as powers of 2 or or writing 2^7 as $4^{3.5}$ oe or writing (LHS) $2^7 \times 4^5$ as 2^{17}
	Working not required, so correct answer scores full marks (unless from obvious incorrect working)	8.5		A1 oe $\frac{17}{2}$, $8\frac{1}{2}$, allow $4^{8.5}$ oe
(b)		$25p^4y^{16}$	2	B2 (award B1 for 2 parts correct must be 25 and not 5^2)
				Total 4 marks