1	98^{91}	B1	cao	Must be clear and unambiguous

2	$2 \times 2 \times 31$	M1	for a complete method to find prime factors; could be shown on a complete factor tree with no more than one error **or** by division by prime factors with no more than one error **or** for 2, 2, 31, (1)	Condone the inclusion of 1 for this mark
		A1	for $2 \times 2 \times 31$ oe	Accept $2^2 \times 31$

3	$2^2 \times 5^3$	M1	for a complete method to find prime factors, could be shown on a complete factor tree with no more than one error or by division by prime factors with no more than one error	Condone the inclusion of 1 for the method marks
		M1	for complete factorisation, eg 2, 2, 5, 5, 5	Could be shown on a fully correct factor tree
		A1	for $2^2 \times 5^3$	

4	Pair of values	P1	for at least 5 multiples of 5 (with no more than 1 incorrect) **or** for at least 5 multiples of 7 (with no more than 1 incorrect) or for m = a multiple of 35 **and** n = a multiple of 14 or for $m = 35$ **or** $n = 14$	
		A1	for a correct pair of values, eg $m = 35$ and $n = 14$ or $m = 35$ and $n = 28$ or $m = 105$ and $n = 14$	$m = 35$, $n = 14, 28, 42, 56, 84, \ldots$ $m = 105$, $n = 14, 28, 56, 98, \ldots$

5	$2 \times 2 \times 3 \times 5$	M1	for a complete method to find prime factors, could be shown on a complete factor tree, with no more than one error or by division by prime factors with no more than one error **or** for 2, 2, 3, 5 (1)	Condone the inclusion of 1 for the method mark
		A1	for $2 \times 2 \times 3 \times 5$ oe	Accept $2^2 \times 3 \times 5$

6 (a)	63	B1	for 63, accept $3 \times 3 \times 7$ or $3^2 \times 7$	
(b)	15 876	M1	for at least two of 2^2, 3^4, 7^2 **or** shows at least 3 multiples of 2268, eg 2268, 4536, 6804 and at least 3 multiples of 441, eg 441, 882, 1323	(A =) $2^2 \times 3^4 \times 7$ scores 0 marks
		A1	for 15 876 or $2^2 \times 3^4 \times 7^2$ oe	