

1	3	4	44		2 M1 97 or 53 seen			
	2		$\overline{3} + \sqrt{6}$, π	2	-1 for each error or omission			
2				ı	I for each circle of offinission			
3	2		a) 211 cao b) 216 cao	1 1				
4			1, 13, 17, 19, 23	3	B2 3 or 4 correct			
					or B1 2 correct If B0 then M1 for x > 10.5 and M1 for x < 26.5 or M1 for 10.5 and 26.5 seen			
5	11	numbers greater the extra 17 (b) either 18 or 19 or both 2FT M1 for 1 numbers		numbers less than 8 with no other numbers greater than or equal to 8 besides possibly an extra 17 M1 for 11,13,17 clearly identified, ignore numbers less than 8 with no other numbers greater than or equal to 8 besides possibly an extra 17				
					or for their (a) – 58			
6	5	(a)	9 and 16	1				
		(b)	11	1.0				
7	1		17	1				
8	5	(a)	12, 15					
		(b)	11, 13	l				
9	15	(a)	2 × 3 × 3 × 5		B1 for 2, 3, [3] and 5 identified as only prime factors or M1 for partial prime factorisation $6 \times 3 \times 5$ or $2 \times 9 \times 5$ or $3 \times 3 \times 10$			
		(b)	630	2	or $2 \times 3 \times 15$ M1 for $2 \times 3^2 \times 5 \times 7$ oe or for listing multiples of 90 and 105 at least up to 630			
10	17	(a)	2×3×5	2	B1 for 2, 3, 5 as prime factors			
		(b)	90	2	B1 for $90k$ or for listing multiples of each up to 90 or $2 \times 3^2 \times 5$			
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11	7	18	2	M1 for $36 = 2 \times 2 \times 3 \times 3$ soi or $90 = 2 \times 3 \times 3 \times 5$ soi or listing the correct factors of 36 and 90 showing a minimum of 2, 3, 6, 9 and 18
12	2	96	'	B1 for $96k$ or $2^5 \times 3$ or for listing multiples of each up to 96
13	13 (a)	$2^5 \times 3^2 \times 7$ oe final answer		3 B2 for product of two of 2^5 , 3^2 , 7
			dilla.	or B1 for 2, 3 and 7 seen or M1 for 2×1008
				or 3 × 672 or 7 × 288 soi
	(b)	2.016×10 ³		1
14	6	144	2	M1 for finding a correct product of prime factors or correctly listing a minimum of 3 multiples of 36 and 48 or for answer $2^4 \times 3^2$ oe or $144k$
15	10	14	2	M1 for $56 = 2 \times 2 \times 2 \times 7$ soi or $70 = 2 \times 5 \times 7$ soi or 2×7 as final answer
16	2	(V) (V) (S)	281	Maths.com
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