

Abbreviations

cao	correct answer only
cso	correct solution only
dep	dependent
ft	follow through after error
isw	ignore subsequent working
oe	or equivalent
SC	Special Case
www	without wrong working

1)

1	-16	2	M1 for 4×6.5
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2)

4	$\frac{\frac{17}{9}}{\frac{5}{2}} \text{ or } \frac{17}{9} \div \frac{5}{2}$ $\frac{17}{9} \times \frac{2}{5} = \frac{34}{45}$	M1 $\frac{\frac{34}{18}}{\frac{45}{18}} \text{ or } \frac{34}{18} \div \frac{45}{18}$	M1 $\frac{34}{18} \times \frac{18}{45} = \frac{34}{45}$
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3)

10	70	3	B1 24.5 or 0.35 seen M1 their LB \div their UB
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4)

1	(a) 8000 cao	1	
	(b) 0.08 cao	1	

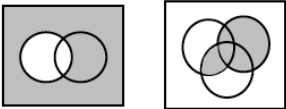
5)

7	2.119×10^8 cao	3	M1 81500 oe M1 their LB \times 2600
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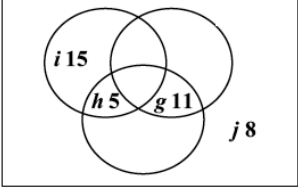
6)

8	249.5 [$\leq j <$] 250.5 cao	2	B1 for either, or both correct but reversed
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7)

9		2	B1 for one correct
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8)

3	(a)	 <div style="border: 1px solid black; padding: 5px; display: inline-block;"> $(g =)11$ $(h =)5$ $(i =)15$ $(j =)8$ </div>	1	
	(b) (i) 5 (ii) 51 (c) (i) 15 (ii) 10		1ft 1ft 1ft 1	ft 16 – their 11 ft 20 – their 5 ft 39 – (their 11 + their 5 + their 15) ft for positive integers only ft 36 + their i
			1 1 1 1	In (d) and (e) accept fraction, %, dec equivalents

9)

9	(a) 5.79×10^7 oe 5.21 39.5	1 1 1	Accept ans in range 57890000 to 57900000 5.207 39.50.... or 39.51 Accept answers to greater than 3sf
	(b) (i) 498.6... to 499 (ii) 328 or 328.3...	2 2	M1 for $1.496 \times 10^8 \div 300\ 000$ M1 for figs 197 or figs 328[3..] seen Or their $39.5 \times$ their (b)(i)

10)

10	(a) A 1, $13 - 2n$ oe B 36, n^2 oe C 42, $n(n + 1)$ oe D 729, 3^n oe E 687, $3^n - n(n + 1)$ oe	3 2 3 2 2ft	B1, B2 (M1 for $k - 2n$) oe B1, B1 B1, B2 (B1 for a quadratic in n) B1, B1 B1ft their D – their C, B1ft their D – their C only if both in terms of n
	(b) (i) – 187 (ii) 10 100 (c) 8 (d) 58 939	1ft 1ft 1 1	ft if A is linear ft if C is quadratic