

Bounds :

Q1. (2018)

(A)

9(a)	8.35 and 8.45 in the correct order	B2	B1 8.35 on the left or 8.45 on the right or 8.45 and 8.35 in the wrong order accept 8.449̇ for 8.45
	Additional Guidance		
	Do not accept 8.449... for 8.449̇		

(B)

9(b)	41.75 and 42.25	B1ft	correct or ft their two different values from (a) their 8.35 must be in the range (8.3, 8.4] their 8.45 must be in the range (8.4, 8.5] correct order or ft order accept 42.249 for 42.25
	Additional Guidance		
	(8.3, 8.4] does not include 8.3 but does include 8.4 (8.4, 8.5] does not include 8.4 but does include 8.5		
	Answer of 8.35 and 8.44 in part (a) leading to 41.75 and 42.2		B1ft
	Answer of 8 and 9 in part (a) leading to 40 and 45		B0ft

Q2. (2019)

17	68.3 – 0.05 or 68.25 or 68.3 + 0.05 or 68.35 or 8.7 – 0.05 or 8.65 or 8.7 + 0.05 or 8.75	M1	accept $68.34\dot{9}$ for 68.35 accept $8.74\dot{9}$ for 8.75 may be seen in an inequality eg $68.25 \leq p < 68.35$
	$\frac{[68.2, 68.3] - 2 \times (8.7, 8.8)}{2}$	M1	oe $\frac{68.25 - 2 \times 8.75}{2}$ or $\frac{68.25 - 17.5}{2}$ or $\frac{50.75}{2}$ is M2
	25.375 or $\frac{203}{8}$ or $25\frac{3}{8}$	A1	SC2 Answer 25.375 and 25.525
	Additional Guidance		
	1st M1 If given as an inequality condone incorrect notation eg $68.25 \leq p < 68.35$		M1
	Ignore any subsequent rounding after 25.375 seen		
	Condone eg 68.250 for 68.25		M1
	Answer 25.3 or 25.4 with no correct working		M0M0A0
	Only working for upper bound eg $\frac{68.35 - 2 \times 8.65}{2} = 25.525$		M1M0A0

Q3. (2023)

Q	Answer	Mark	Comments
24	64.5 or 65.5 or 25 or 35	M1	allow $65.\dot{4}9$ or $34.\dot{9}$ implied by 4160.25 or 4290.25 or 8320.5 or 8580.5 or 625 or 1225
	$2 \times \text{their } 65.5^2 - \text{their } 25^2$ or $2 \times 4290.25 - 625$ or $8580.5 - 625$	M1	their 65.5 must be (65, 66] their 25 must be [20, 30)
	65.5 and 25 and 7955.5	A1	
	Additional Guidance		
	Up to M2 may be awarded for correct work with no answer or incorrect answer, even if this is seen amongst multiple attempts		
	If multiple attempts are seen and one is fully correct, the correct one must be unambiguously selected (eg ticked or circled) to award A1 if the answer line is blank		
	Note that M0M1A0 is possible eg $2 \times 66^2 - 21^2$		M0M1A0
	Condone eg 65.50 for 65.5		