

Q1. (2019)

12	15	B1	
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Q2. (2019)

(A)

22(a)	22.6 or $\frac{113}{5}$ or $22\frac{3}{5}$	B1	
	Additional Guidance		
	Condone $22\frac{6}{10}$		B1

(B)

22(b)	Alternative method 1		
	n^2 will be positive and $\frac{12}{n}$ will be negative and positive – negative = positive	B2	oe B1 n^2 will be positive or $\frac{12}{n}$ will be negative
	Alternative method 2		
	n^2 will be positive and $-\frac{12}{n}$ will be positive and positive + positive = positive	B2	oe B1 n^2 will be positive or $-\frac{12}{n}$ will be positive
	Additional Guidance		
	For ' n^2 will be positive' accept the square of a negative number is a positive		
	For ' n^2 will be positive' condone square or squared numbers are positive		
	For 'positive – negative = positive' condone $+(ve) - -(ve) = +(ve)$		

Q3. (2021)

Q	Answer	Mark	Comments
20	15, 11, 7, 3 as the first four terms or $19 - 4 \times 5$ or $19 - 20$ or –1 as the first negative term or 4.75	M1	oe
	5	A1	
	Additional Guidance		
	$5n$ on answer line with 5 in working		M1A0
	$n = -1$ without correct working for M1		M0
	$4.75n$ on answer line with no correct M1 values		M0
	$19 - 4n < 0$ with no correct M1 values		M0

Q4. (2023)

Q	Answer	Mark	Comments
5(a)	15	B1	implied by 70 or 345
	(3rd term $\Rightarrow$) 70	B1ft	ft (their $15 - 1) \times 5$
	Additional Guidance		
	15 70 on answer line		B1B1
	15 and/or 70 seen but not final term eg Answer 345		B1B0
	Answer only 345		B1B0

Q5. (2023)

Q	Answer	Mark	Comments
5(b)	50×2 or 100	M1	
	80	A1	SC1 120 or 5 or 60
	Additional Guidance		
	80, 50, ... on answer line		M1A1
	80, 50, ... in working with answer line blank		M1A1
	80, 50, ... in working with 35 on answer line		M1A0
	$80 + 20 \div 2 = 50$ without answer 80 (embedded answer)		M1A0

Q6. (2023)

Q	Answer	Mark	Comments
17	2 correct matches	B2	B1 for 1 correct match
	Additional Guidance		
	Mark intention		
	Matching to more than one box on the right is choice for that match		
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Name</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">Quadratic sequence</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">Linear sequence</div> <div style="border: 1px solid black; padding: 5px;">Fibonacci-type sequence</div> </div> <div style="width: 45%;"> <p>Sequence</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">4, 5, 9, 14, 23...</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">-3, 1, 5, 9, 13...</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">-4, -1, 1, 5, 12...</div> <div style="border: 1px solid black; padding: 5px;">8, 11, 16, 23, 32...</div> </div> </div>		

Q7. (2023)

Q	Answer	Mark	Comments
18	1 – 0.04 or 0.96 or $0.04 \times 1\,000\,000$ or 40 000 or 960 000	M1	oe eg $1 - \frac{4}{100}$ 1 040 000 implies M1
	Full method for exactly 5 compounded percentage calculations with their multiplier	M1	oe eg $1\,000\,000 \times \text{their } 0.96^5$
	[800 000, 820 000] with M2 awarded	A1	
	Additional Guidance		
	815 372.(...) or 815 373 with M2 awarded		M1M1A1
	Answer 800 000 from $40\,000 \times 5$		M1M0A0
	Answer 800 000 without either 40 000 shown or M2 awarded		M0M0A0
	Intermediate values for separate calculations are 960 000, 921 600, 884 736, 849 346.(...)		

Q3a, Q3b, Q18. (2024)

(A)

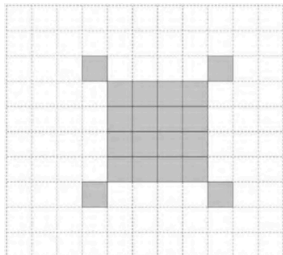
Q	Answer	Mark	Comments
3(a)	23	B1	ignore further terms

(B)

Q	Answer	Mark	Comments
3(b)	add 6	B1ft	accept + 6 ft their 23 or correct answer
	Additional Guidance		
	20 in part (a) answer + 3 34 in part (a) answer $\times 2$		B1ft B1ft

Q9. (2024)

(A)

Q	Answer	Mark	Comments
18(a)		B1	
	Additional Guidance		
	Mark intention, condone missing interior lines		
	Shading not required		

(B)

Q	Answer	Mark	Comments
18(b)	23	B1	