
GCSE Mathematics

Sequences

Mark Scheme - Foundation | Grades 3-5

M = method mark, A = accuracy mark (dependent on the preceding M mark), B = independent mark.

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Edexcel-style questions

Q1 Grade 3 Edexcel style**Total: 1**

Part	Mark scheme	Marks
(a)	19, 23	B1

Q2 Grade 3 Edexcel style**Total: 1**

Part	Mark scheme	Marks
(a)	add 4	B1

Q3 Grade 5 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	common difference = 4, so $4n + (3 - 4)$	M1
(a)	$4n - 1$	A1

Q4 Grade 4 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	$6(10) + 2$	M1
(a)	62	A1

Q5 Grade 5 Edexcel style**Total: 3**

Part	Mark scheme	Marks
(a)	$3n + 1 = 100$	M1
(a)	$n = 33$	M1
(a)	yes, 100 is the 33rd term (n is a whole number)	A1

AQA-style questions**Q6** Grade 3 AQA style**Total: 1**

Part	Mark scheme	Marks
(a)	14, 17	B1

Q7 Grade 3 AQA style**Total: 1**

Part	Mark scheme	Marks
(a)	add 3	B1

Q8 Grade 5 AQA style**Total: 2**

Part	Mark scheme	Marks
(a)	common difference = 3, so $3n + (2 - 3)$	M1
(a)	$3n - 1$	A1

Q9 Grade 4 AQA style**Total: 2**

Part	Mark scheme	Marks
(a)	$4(15) - 3$	M1
(a)	57	A1

Q10 Grade 5 AQA style**Total: 3**

Part	Mark scheme	Marks
(a)	$4n - 1 = 50$	M1
(a)	$n = 12.75$	M1
(a)	no, n is not a whole number	A1

OCR-style questions**Q11** Grade 3 OCR style**Total: 1**

Part	Mark scheme	Marks
(a)	8, 5	B1

Q12 Grade 3 OCR style**Total: 1**

Part	Mark scheme	Marks
(a)	subtract 3	B1

Q13 Grade 5 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	common difference = -3, so $-3n + (20 - (-3))$	M1
(a)	$23 - 3n$	A1

Q14 Grade 4 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$7(12) + 1$	M1
(a)	85	A1

Q15 Grade 5 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	$5n + 3 = 78$	M1
(a)	$n = 15$	M1
(a)	yes, 78 is the 15th term (n is a whole number)	A1

Teachably-style questions

Q16 Grade 3 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	21, 26	B1

Q17 Grade 3 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	add 5	B1

Q18 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	common difference = 5, so $5n + (1 - 5)$	M1
(a)	$5n - 4$	A1

Q19 Grade 4 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$5(20) - 2$	M1
(a)	98	A1

Q20 Grade 5 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	$6n - 4 = 100$	M1
(a)	$n = 17.33...$	M1
(a)	no, n is not a whole number	A1

END OF PAPER

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