
GCSE Mathematics

Factors, Multiples & Primes Practice

Mark Scheme - Foundation, Grade 1-4

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

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Edexcel-style questions

Q1 Grade 2 Edexcel style

Total: 1

Part	Mark scheme	Marks
(a)	1, 2, 3, 6, 9, 18	B1

Q2 Grade 1 Edexcel style

Total: 1

Part	Mark scheme	Marks
(a)	6, 12, 18, 24, 30	B1

Q3 Grade 2 Edexcel style

Total: 1

Part	Mark scheme	Marks
(a)	11, 13, 17, 19	B1

Q4 Grade 4 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$60 = 2 \times 30 = 2 \times 2 \times 15 = 2 \times 2 \times 3 \times 5$	M1
(a)	$2^2 \times 3 \times 5$	A1

Q5 Grade 3 Edexcel style

Total: 1

Part	Mark scheme	Marks
(a)	Any common factor of 12 and 18 other than 1, e.g. 2, 3 or 6	B1

AQA-style questions

Q6 Grade 2 AQA style

Total: 1

Part	Mark scheme	Marks
(a)	1, 2, 3, 4, 6, 8, 12, 24	B1

Q7 Grade 1 AQA style

Total: 1

Part	Mark scheme	Marks
(a)	7, 14, 21, 28, 35	B1

Q8 Grade 3 AQA style

Total: 1

Part	Mark scheme	Marks
(a)	31, 37	B1

Q9 Grade 4 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$84 = 2 \times 42 = 2 \times 2 \times 21 = 2 \times 2 \times 3 \times 7$	M1
(a)	$2^2 \times 3 \times 7$	A1

Q10 Grade 3 AQA style

Total: 1

Part	Mark scheme	Marks
(a)	12 or 24	B1

OCR-style questions**Q11** Grade 2 OCR style**Total: 1**

Part	Mark scheme	Marks
(a)	1, 2, 3, 5, 6, 10, 15, 30	B1

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

Part	Mark scheme	Marks
(a)	11, 22, 33, 44, 55	B1

Q13 Grade 2 OCR style**Total: 1**

Part	Mark scheme	Marks
(a)	23, 29	B1

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

Part	Mark scheme	Marks
(a)	$90 = 2 \times 45 = 2 \times 3 \times 15 = 2 \times 3 \times 3 \times 5$	M1
(a)	$2 \times 3^2 \times 5$	A1

Q15 Grade 3 OCR style**Total: 1**

Part	Mark scheme	Marks
(a)	Any two of 1, 2, 5, 10	B1

Teachably-style questions

Q16 Grade 2 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	1, 2, 4, 5, 8, 10, 20, 40	B1

Q17 Grade 1 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	9, 18, 27, 36, 45	B1

Q18 Grade 2 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	2, 3, 5, 7	B1

Q19 Grade 4 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$72 = 2 \times 36 = 2 \times 2 \times 18 = 2 \times 2 \times 2 \times 9 = 2 \times 2 \times 2 \times 3 \times 3$	M1
(a)	$2^3 \times 3^2$	A1

Q20 Grade 3 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	Any common multiple of 3 and 5, e.g. 15, 30 or 45	B1

END OF PAPER

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