
GCSE Mathematics

HCF & LCM Practice

Mark Scheme - Foundation, Grade 4-5

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

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Edexcel-style questions

Q1 Grade 4 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	factors of 24: 1, 2, 3, 4, 6, 8, 12, 24 and factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36	M1
(a)	HCF = 12	A1

Q2 Grade 4 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	multiples of 4: 4, 8, 12, ... and multiples of 6: 6, 12, ...	M1
(a)	LCM = 12	A1

Q3 Grade 5 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	$\text{HCF} = 2 \times 3 = 6$	B1
(b)	$2 \times 7 \times 2 \times 3 \times 3 \times 5$	M1
(b)	LCM = 1260	A1

Q4 Grade 5 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	LCM of 8 and 12	M1
(a)	24 seconds	A1

Q5 Grade 5 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	HCF of 48 and 60	M1
(a)	12	A1

AQA-style questions

Q6 Grade 4 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	factors of 18: 1, 2, 3, 6, 9, 18 and factors of 24: 1, 2, 3, 4, 6, 8, 12, 24	M1
(a)	HCF = 6	A1

Q7 Grade 4 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	multiples of 6: 6, 12, 18, 24, ... and multiples of 8: 8, 16, 24, ...	M1
(a)	LCM = 24	A1

Q8 Grade 5 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	HCF = $2 \times 7 = 14$	B1
(b)	$2 \times 2 \times 7 \times 3$	M1
(b)	LCM = 84	A1

Q9 Grade 5 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	LCM of 15 and 20	M1
(a)	60 seconds	A1

Q10 Grade 5 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	HCF of 36 and 84	M1
(a)	12	A1

OCR-style questions

Q11 Grade 4 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	factors of 30: 1, 2, 3, 5, 6, 10, 15, 30 and factors of 45: 1, 3, 5, 9, 15, 45	M1
(a)	HCF = 15	A1

Q12 Grade 4 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	multiples of 4: 4, 8, 12, 16, 20, ... and multiples of 10: 10, 20, ...	M1
(a)	LCM = 20	A1

Q13 Grade 5 OCR style

Total: 3

Part	Mark scheme	Marks
(a)	HCF = $2 \times 3 = 6$	B1
(b)	$3 \times 2 \times 3 \times 5$	M1
(b)	LCM = 90	A1

Q14 Grade 5 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	LCM of 18 and 24	M1
(a)	72 minutes	A1

Q15 Grade 5 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	HCF of 42 and 56	M1
(a)	14	A1

Teachably-style questions

Q16 Grade 4 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	factors of 20: 1, 2, 4, 5, 10, 20 and factors of 28: 1, 2, 4, 7, 14, 28	M1
(a)	HCF = 4	A1

Q17 Grade 4 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	multiples of 6: 6, 12, 18, ... and multiples of 9: 9, 18, ...	M1
(a)	LCM = 18	A1

Q18 Grade 5 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	HCF = $3 \times 5 = 15$	B1
(b)	$3 \times 3 \times 5 \times 2 \times 2$	M1
(b)	LCM = 180	A1

Q19 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	LCM of 10 and 14	M1
(a)	70 seconds	A1

Q20 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	HCF of 54 and 72	M1
(a)	18	A1

END OF PAPER

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