
GCSE Mathematics

Linear Inequalities

Mark Scheme - Grades 4-6

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)	open circle at $x = 2$	B1
(a)	arrow extending to the right of 2	B1

Q2 Grade 4 Edexcel style

Total: 1

Part	Mark scheme	Marks
(a)	$x > 3$	B1

Q3 Grade 5 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$2x > 8$	M1
(a)	$x > 4$	A1

Q4 Grade 5 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	integers strictly greater than -2, up to and including 3	M1
(a)	-1, 0, 1, 2, 3	A1

Q5 Grade 6 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	$-2x > 8$	M1
(a)	dividing by a negative number reverses the inequality	M1
(a)	$x < -4$	A1

AQA-style questions

Q6 Grade 4 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	closed circle at $x = -3$	B1
(a)	arrow extending to the left of -3	B1

Q7 Grade 4 AQA style

Total: 1

Part	Mark scheme	Marks
(a)	$x \leq -4$	B1

Q8 Grade 5 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$3y \leq 15$	M1
(a)	$y \leq 5$	A1

Q9 Grade 5 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	integers from -3 up to but not including 2	M1
(a)	$-3, -2, -1, 0, 1$	A1

Q10 Grade 6 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	$-3y \leq 15$	M1
(a)	dividing by a negative number reverses the inequality	M1
(a)	$y \geq -5$	A1

OCR-style questions

Q11 Grade 4 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	open circle at $x = -1$ and closed circle at $x = 4$	B1
(a)	line segment joining -1 and 4	B1

Q12 Grade 4 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$-3 \leq x$ (closed circle at -3)	B1
(a)	$x < 2$ (open circle at 2), so $-3 \leq x < 2$	B1

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

Part	Mark scheme	Marks
(a)	$4a < 16$	M1
(a)	$a < 4$	A1

Q14 Grade 5 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	integers strictly greater than 0 , up to and including 5	M1
(a)	$1, 2, 3, 4, 5$	A1

Q15 Grade 6 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	$-4a > -12$	M1
(a)	dividing by a negative number reverses the inequality	M1
(a)	$a < 3$	A1

Teachably-style questions

Q16 Grade 4 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	closed circle at $x = 0$	B1
(a)	arrow extending to the right of 0	B1

Q17 Grade 4 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$-2 < x$ (open circle at -2)	B1
(a)	$x \leq 3$ (closed circle at 3), so $-2 < x \leq 3$	B1

Q18 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$5p \geq 20$	M1
(a)	$p \geq 4$	A1

Q19 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	integers from -4 up to but not including 0	M1
(a)	-4, -3, -2, -1	A1

Q20 Grade 6 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	$-3p \leq -9$	M1
(a)	dividing by a negative number reverses the inequality	M1
(a)	$p \geq 3$	A1

END OF PAPER

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