
GCSE Mathematics

Rearranging Formulae

Mark Scheme - Grades 5-7

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

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Edexcel-style questions

Q1 Grade 5 Edexcel style

Total: 1

Part	Mark scheme	Marks
(a)	$x = y - 7$	B1

Q2 Grade 5 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$3x = y - 2$	M1
(a)	$x = \frac{y - 2}{3}$	A1

Q3 Grade 6 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$x^2 = y - 3$	M1
(a)	$x = \sqrt{y - 3}$	A1

Q4 Grade 7 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	$ax - bx = 4$	M1
(a)	$x(a - b) = 4$	M1
(a)	$x = \frac{4}{a - b}$	A1

Q5 Grade 6 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$xy = 5$	M1
(a)	$x = \frac{5}{y}$	A1

AQA-style questions

Q6 Grade 5 AQA style

Total: 1

Part	Mark scheme	Marks
(a)	$x = y + 4$	B1

Q7 Grade 5 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$4x = y + 5$	M1
(a)	$x = \frac{y + 5}{4}$	A1

Q8 Grade 6 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	$x^2 = y + 5$	M1
(a)	$x = \sqrt{y + 5}$	A1

Q9 Grade 7 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	$3x - dx = 8 - c$	M1
(a)	$x(3 - d) = 8 - c$	M1
(a)	$x = \frac{8 - c}{3 - d}$	A1

Q10 Grade 7 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	$y(x + 2) = 3$	M1
(a)	$x + 2 = \frac{3}{y}$	M1
(a)	$x = \frac{3}{y} - 2$	A1

OCR-style questions

Q11 Grade 5 OCR style

Total: 1

Part	Mark scheme	Marks
(a)	$x = y/5$	B1

Q12 Grade 5 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	$2x = y - 7$	M1
(a)	$x = \frac{y-7}{2}$	A1

Q13 Grade 6 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	$\sqrt{x} = y - 2$	M1
(a)	$x = (y - 2)^2$	A1

Q14 Grade 7 OCR style

Total: 3

Part	Mark scheme	Marks
(a)	$px - qx = 6$	M1
(a)	$x(p - q) = 6$	M1
(a)	$x = \frac{6}{p-q}$	A1

Q15 Grade 6 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	$xy = a$	M1
(a)	$x = a/y$	A1

Teachably-style questions

Q16 Grade 5 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	$x = 6y$	B1

Q17 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$5x = y + 3$	M1
(a)	$x = \frac{y+3}{5}$	A1

Q18 Grade 6 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$y^2 = x - 4$	M1
(a)	$x = y^2 + 4$	A1

Q19 Grade 7 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	$2x - nx = -4 - m$	M1
(a)	$x(2 - n) = -(4 + m)$	M1
(a)	$x = \frac{4+m}{n-2}$	A1

Q20 Grade 7 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	$y(x - 1) = 4$	M1
(a)	$x - 1 = \frac{4}{y}$	M1
(a)	$x = \frac{4}{y} + 1$	A1

END OF PAPER

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