
GCSE Mathematics

Coordinates & Midpoints Practice

Mark Scheme - Foundation, Grade 2-4

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: 3

Part	Mark scheme	Marks
(a)	$A = (2, 3), B = (-3, 1), C = (-2, -3)$	B3

Q2 Grade 3 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	P plotted correctly at (3, -2)	B1
(a)	Q plotted correctly at (-4, 1)	B1

Q3 Grade 3 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$(\frac{2+8}{2}, \frac{3+7}{2})$	M1
(a)	(5, 5)	A1

Q4 Grade 4 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$\sqrt{3^2 + 4^2}$	M1
(a)	5	A1

Q5 Grade 4 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$(2 \times 4 - 2, 2 \times 5 - 3)$	M1
(a)	(6, 7)	A1

AQA-style questions

Q6 Grade 2 AQA style**Total: 3**

Part	Mark scheme	Marks
(a)	$A = (4, -2), B = (-4, 3), C = (1, -4)$	B3

Q7 Grade 3 AQA style**Total: 2**

Part	Mark scheme	Marks
(a)	P plotted correctly at $(-3, 4)$	B1
(a)	Q plotted correctly at $(2, -3)$	B1

Q8 Grade 3 AQA style**Total: 2**

Part	Mark scheme	Marks
(a)	$\left(\frac{-4+2}{2}, \frac{6-2}{2}\right)$	M1
(a)	$(-1, 2)$	A1

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

Part	Mark scheme	Marks
(a)	$\sqrt{5^2 + 12^2}$	M1
(a)	13	A1

Q10 Grade 4 AQA style**Total: 2**

Part	Mark scheme	Marks
(a)	$(2 \times -1 + 5, 2 \times 2 + 3)$	M1
(a)	$(3, 7)$	A1

OCR-style questions

Q11 Grade 2 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	$A = (3, 4), B = (-1, -3), C = (-4, 1)$	B3

Q12 Grade 3 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	P plotted correctly at (4, 3)	B1
(a)	Q plotted correctly at (-2, -4)	B1

Q13 Grade 3 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$(\frac{1+7}{2}, \frac{-5+3}{2})$	M1
(a)	(4, -1)	A1

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

Part	Mark scheme	Marks
(a)	$\sqrt{6^2 + 8^2}$	M1
(a)	10	A1

Q15 Grade 4 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$(2 \times 3 - 7, 2 \times -2 - 4)$	M1
(a)	(-1, -8)	A1

Teachably-style questions

Q16 Grade 2 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	$A = (-2, 4), B = (3, -1), C = (-3, -4)$	B3

Q17 Grade 3 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	P plotted correctly at $(-4, -1)$	B1
(a)	Q plotted correctly at $(3, 4)$	B1

Q18 Grade 3 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$\left(\frac{-6-2}{2}, \frac{-3+9}{2}\right)$	M1
(a)	$(-4, 3)$	A1

Q19 Grade 4 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$\sqrt{9^2 + 12^2}$	M1
(a)	15	A1

Q20 Grade 4 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$(2 \times 0 + 4, 2 \times 1 - 5)$	M1
(a)	$(4, -3)$	A1

END OF PAPER

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