
GCSE Mathematics

Angle Facts & Rules

Mark Scheme - Foundation | Grades 1-3

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)	$x + 110 = 180$	M1
(a)	$x = 70^\circ$	A1
(a)	angles on a straight line sum to 180°	B1

Q2 Grade 2 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	$150 + 90 + x = 360$	M1
(a)	$x = 120^\circ$	A1
(a)	angles around a point sum to 360°	B1

Q3 Grade 3 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	$x = 65^\circ$	B1
(a)	vertically opposite angles are equal	B1

Q4 Grade 3 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	$x + 50 + 60 = 180$	M1
(a)	$x = 70^\circ$	A1
(a)	angles in a triangle sum to 180°	B1

Q5 Grade 3 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	$x + 95 + 80 + 120 = 360$	M1
(a)	$x = 65^\circ$	A1
(a)	angles in a quadrilateral sum to 360°	B1

AQA-style questions

Q6 Grade 2 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	$x + 55 + 70 = 180$	M1
(a)	$x = 55^\circ$	A1
(a)	angles on a straight line sum to 180°	B1

Q7 Grade 2 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	$100 + 90 + 120 + x = 360$	M1
(a)	$x = 50^\circ$	A1
(a)	angles around a point sum to 360°	B1

Q8 Grade 3 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	$x + 48 = 180$	M1
(a)	$x = 132^\circ$	A1
(a)	angles on a straight line sum to 180°	B1

Q9 Grade 3 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	$(180 - 40) \div 2$	M1
(a)	angle B = 70°	A1
(a)	base angles of an isosceles triangle are equal	B1

Q10 Grade 3 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	$90 + 85 + 95 + x = 360$	M1
(a)	$x = 90^\circ$	A1
(a)	angles in a quadrilateral sum to 360°	B1

OCR-style questions

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

Part	Mark scheme	Marks
(a)	$x + 108 = 180$	M1
(a)	$x = 72^\circ$	A1
(a)	angles on a straight line sum to 180°	B1

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

Part	Mark scheme	Marks
(a)	$170 + 95 + x = 360$	M1
(a)	$x = 95^\circ$	A1
(a)	angles around a point sum to 360°	B1

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

Part	Mark scheme	Marks
(a)	$x = 72^\circ$	B1
(a)	vertically opposite angles are equal	B1

Q14 Grade 3 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	$x + 45 + 75 = 180$	M1
(a)	$x = 60^\circ$	A1
(a)	angles in a triangle sum to 180°	B1

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

Part	Mark scheme	Marks
(a)	third angle of the triangle = $180 - 80 - 60 = 40^\circ$	M1
(a)	$40 + 150 + y = 360$	M1
(a)	$y = 170^\circ$	A1

Teachably-style questions

Q16 Grade 2 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	$90 + x + 40 = 180$	M1
(a)	$x = 50^\circ$	A1
(a)	angles on a straight line sum to 180°	B1

Q17 Grade 2 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	$90 + 100 + 80 + x = 360$	M1
(a)	$x = 90^\circ$	A1
(a)	angles around a point sum to 360°	B1

Q18 Grade 3 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	$x + 58 = 180$	M1
(a)	$x = 122^\circ$	A1
(a)	angles on a straight line sum to 180°	B1

Q19 Grade 3 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	$180 - 65 - 65$	M1
(a)	angle A = 50°	A1
(a)	angles in a triangle sum to 180°	B1

Q20 Grade 3 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	angle C = $180 - 65 - 55 = 60^\circ$	M1
(a)	$x = 60^\circ$	A1
(a)	vertically opposite angles are equal	B1

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