
GCSE Mathematics

Area of Compound Shapes

Mark Scheme - Foundation | Grades 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: 3

Part	Mark scheme	Marks
(a)	rectangle 1 = $6 \times 10 = 60 \text{ cm}^2$	M1
(a)	rectangle 2 = $4 \times 6 = 24 \text{ cm}^2$	M1
(a)	total area = $60 + 24 = 84 \text{ cm}^2$	A1

Q2 Grade 4 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	large rectangle = $10 \times 8 = 80 \text{ cm}^2$	M1
(a)	cut-out rectangle = $4 \times 4 = 16 \text{ cm}^2$	M1
(a)	area = $80 - 16 = 64 \text{ cm}^2$	A1

Q3 Grade 5 Edexcel style

Total: 4

Part	Mark scheme	Marks
(a)	$x = 8 + 4 = 12 \text{ cm}$	M1
(a)	rectangle 1 = $8 \times 10 = 80 \text{ cm}^2$	M1
(a)	rectangle 2 = $4 \times 6 = 24 \text{ cm}^2$	M1
(a)	total area = $80 + 24 = 104 \text{ cm}^2$	A1

Q4 Grade 5 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	rectangle = $8 \times 5 = 40 \text{ cm}^2$	M1
(a)	triangle = $\frac{1}{2} \times 8 \times 3 = 12 \text{ cm}^2$	M1
(a)	total area = $40 + 12 = 52 \text{ cm}^2$	A1

Q5 Grade 5 Edexcel style

Total: 4

Part	Mark scheme	Marks
(a)	large rectangle = $16 \times 14 = 224 \text{ cm}^2$	M1
(a)	top-right notch = $4 \times 4 = 16 \text{ cm}^2$	M1
(a)	bottom-left notch = $6 \times 4 = 24 \text{ cm}^2$	M1
(a)	area = $224 - 16 - 24 = 184 \text{ cm}^2$	A1

AQA-style questions

Q6 Grade 4 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	rectangle 1 = $9 \times 10 = 90 \text{ cm}^2$	M1
(a)	rectangle 2 = $5 \times 6 = 30 \text{ cm}^2$	M1
(a)	total area = $90 + 30 = 120 \text{ cm}^2$	A1

Q7 Grade 4 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	large rectangle = $12 \times 8 = 96 \text{ cm}^2$	M1
(a)	cut-out rectangle = $5 \times 4 = 20 \text{ cm}^2$	M1
(a)	area = $96 - 20 = 76 \text{ cm}^2$	A1

Q8 Grade 5 AQA style

Total: 4

Part	Mark scheme	Marks
(a)	$x = 4 + 5 = 9 \text{ cm}$	M1
(a)	rectangle 1 = $10 \times 9 = 90 \text{ cm}^2$	M1
(a)	rectangle 2 = $6 \times 5 = 30 \text{ cm}^2$	M1
(a)	total area = $90 + 30 = 120 \text{ cm}^2$	A1

Q9 Grade 5 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	rectangle = $10 \times 6 = 60 \text{ cm}^2$	M1
(a)	triangle = $\frac{1}{2} \times 10 \times 4 = 20 \text{ cm}^2$	M1
(a)	total area = $60 + 20 = 80 \text{ cm}^2$	A1

Q10 Grade 5 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	large rectangle = $12 \times 8 = 96 \text{ cm}^2$	M1
(a)	notch area = $96 - 84 = 12 \text{ cm}^2$	M1
(a)	$h = 12 \div 4 = 3 \text{ cm}$	A1

OCR-style questions

Q11 Grade 4 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	rectangle 1 = $7 \times 9 = 63 \text{ cm}^2$	M1
(a)	rectangle 2 = $5 \times 5 = 25 \text{ cm}^2$	M1
(a)	total area = $63 + 25 = 88 \text{ cm}^2$	A1

Q12 Grade 4 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	large rectangle = $11 \times 9 = 99 \text{ cm}^2$	M1
(a)	cut-out rectangle = $4 \times 5 = 20 \text{ cm}^2$	M1
(a)	area = $99 - 20 = 79 \text{ cm}^2$	A1

Q13 Grade 5 OCR style**Total: 4**

Part	Mark scheme	Marks
(a)	$x = 13 - 5 = 8 \text{ cm}$	M1
(a)	rectangle 1 = $8 \times 10 = 80 \text{ cm}^2$	M1
(a)	rectangle 2 = $5 \times 6 = 30 \text{ cm}^2$	M1
(a)	total area = $80 + 30 = 110 \text{ cm}^2$	A1

Q14 Grade 5 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	rectangle = $8 \times 6 = 48 \text{ cm}^2$	M1
(a)	semicircle = $\frac{1}{2} \times \pi \times 4^2 = 8\pi \text{ cm}^2$	M1
(a)	total area = $48 + 8\pi \text{ cm}^2$	A1

Q15 Grade 5 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	rectangle = $10 \times 8 = 80 \text{ cm}^2$	M1
(a)	triangle = $\frac{1}{2} \times 4 \times 5 = 10 \text{ cm}^2$	M1
(a)	area = $80 - 10 = 70 \text{ cm}^2$	A1

Teachably-style questions

Q16 Grade 4 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	rectangle 1 = $9 \times 8 = 72 \text{ cm}^2$	M1
(a)	rectangle 2 = $6 \times 4 = 24 \text{ cm}^2$	M1
(a)	total area = $72 + 24 = 96 \text{ cm}^2$	A1

Q17 Grade 4 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	large rectangle = $13 \times 9 = 117 \text{ cm}^2$	M1
(a)	cut-out rectangle = $5 \times 4 = 20 \text{ cm}^2$	M1
(a)	area = $117 - 20 = 97 \text{ cm}^2$	A1

Q18 Grade 5 Teachably style

Total: 4

Part	Mark scheme	Marks
(a)	$x = 10 - 5 = 5 \text{ cm}$	M1
(a)	rectangle 1 = $9 \times 10 = 90 \text{ cm}^2$	M1
(a)	rectangle 2 = $5 \times 5 = 25 \text{ cm}^2$	M1
(a)	total area = $90 + 25 = 115 \text{ cm}^2$	A1

Q19 Grade 5 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	rectangle = $12 \times 6 = 72 \text{ cm}^2$	M1
(a)	semicircle = $\frac{1}{2} \times \pi \times 3^2 = 4.5\pi \text{ cm}^2$	M1
(a)	total area = $72 + 4.5\pi \text{ cm}^2$	A1

Q20 Grade 5 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	rectangle = $10 \times 6 = 60 \text{ cm}^2$	M1
(a)	the two semicircles (radius 3 cm) together make one full circle: $\pi \times 3^2 = 9\pi \text{ cm}^2$	M1
(a)	total area = $60 + 9\pi \text{ cm}^2$	A1

END OF PAPER

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