

For AQA

General Certificate of Secondary Education

MATHEMATICS (MODULAR)

Module 5 Foundation Tier

Paper A1

Marking Guide

Method marks (M) are awarded for knowing and using a correct method.

Accuracy marks (A) are awarded for correct answers, having used a correct method.

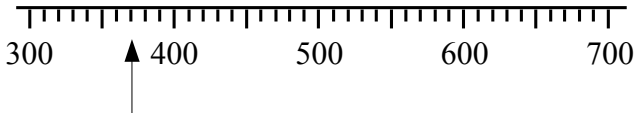
(B) marks are independent of method marks.



Written by Shaun Armstrong

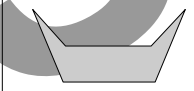
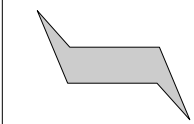
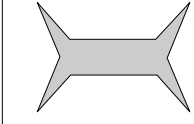
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Foundation Tier Module 5 Paper A1 Marking Guide

1. (a) 26 B1
- (b) 3.2 B1
- (c)  B1
- Total 3

2. (a) (i) $= 180 - 38 = 142^\circ$ B1
- (ii) angles on a straight line add up to 180° B1
- (b) (i) $= 180 - (90 + 38) = 52^\circ$ B1
- (ii) angles in a triangle add up to 180° B1
- Total 4

3. B4

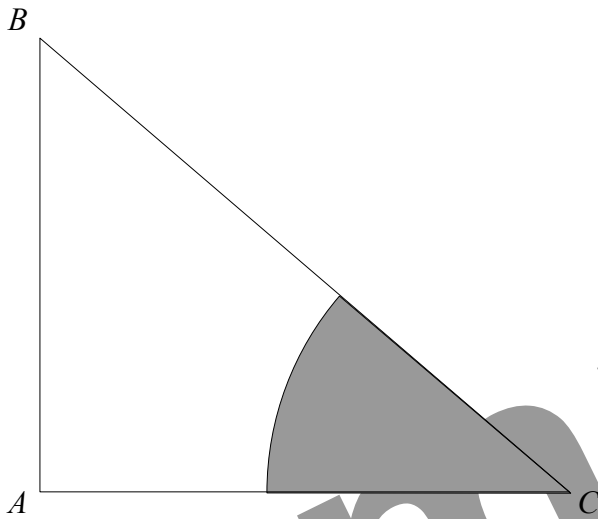
	Exactly one line of symmetry	Exactly two lines of symmetry	Rotational symmetry of order 2
	✓		
			✓
		✓	✓

Total 4

4. XS area = 7
 volume = $7 \times 3 = 21 \text{ cm}^3$ M1 A1
- Total 2

5. (a) $\frac{6}{8}$ and $\frac{21}{28}$ B2
- (b) $\frac{3}{5}$ M1 A1
- Total 4

6.



Total 2

7. (a) $= 8 \times 100 = 800$

M1 A1

(b) (i) 6^{15}

B1

(ii) 6^9

B1

Total 4

8. (a) **R and T**

B1

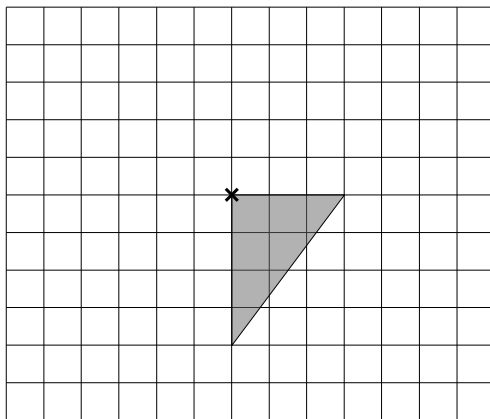
(b) (i) **U**

B1

(ii) **3**

B1

(c)



M1 A1

Total 5

9. (a) $3x + 12$

B1

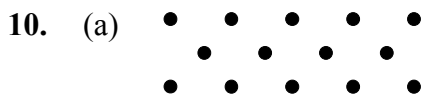
(b) $y(y + 7)$

B1

(c) $= 24 - 15 = 9$

M1 A1

Total 4



B1

(b) (i) 17

B1

(ii) 32

B1

(c) 5, 8, 11, 14
 difference = 3
 0th term = $5 - 3 = 2$
 n th = $3n + 2$

M1

M1

A1

Total 6

11. (a) $= \frac{1}{2} \times 6 \times 3 = 9 \text{ cm}^2$

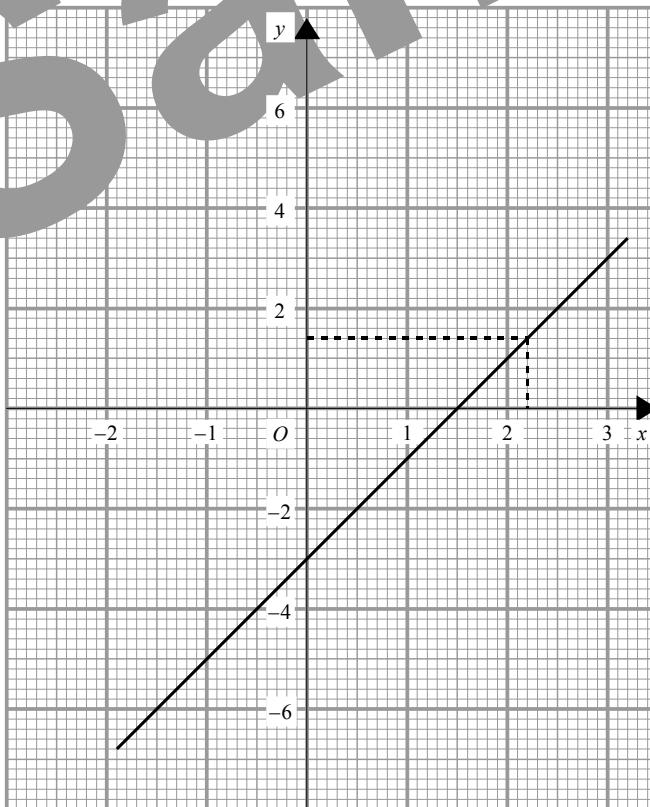
M1 A1

(b) $= 9 \times 8 = 72 \text{ cm}^3$

M1 A1

Total 4

12. (a)



B3

(b) $x = 2.2$

B1

Total 4

13. (a) (i) 40°
 alternate angles

B1

B1

(ii) $= 180 - (30 + 40) = 180 - 70 = 110^\circ$

M1 A1

(b) $\angle ACB = \angle ABC = 34$
 $\angle BAC = 180 - (34 + 34) = 112$
 $x = 360 - 112 = 248^\circ$

B1

M1

A1

Total 7

14.	(a) $a = 11 - 5 = 6$	B1	
	(b) $2t = 20$ $t = 10$	M1 A1	
	(c) $3y - 12 = 2y$ $3y = 2y + 12$ $y = 12$	M1 M1 A1	Total 6
15.	-1, 0, 1, 2	B2	Total 2
16.	$= 2 \times (4 \times 2.5) + 2 \times (6 \times 2.5) - (1 \times 2)$ $= 2 \times 10 + 2 \times 15 - 2 = 20 + 30 - 2 = 48 \text{ m}^2$	M2 A1	Total 3
17.	10% of £72 = £7.20 10% of £60 = £6, 5% = £3, 15% = £9 extra = £9 - £7.20 = £1.80	B1 M1 M1 A1	Total 4
18.	$= x^2 + 5x + 3x + 15$ $= x^2 + 8x + 15$	M1 A1	Total 2

TOTAL FOR PAPER: 70 MARKS