Q1.

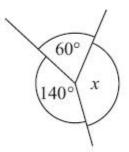


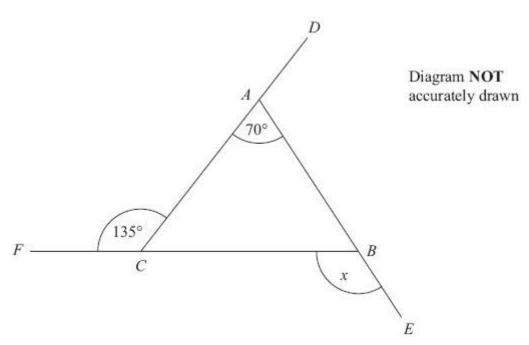
Diagram **NOT** accurately drawn

	(Total for Question is 2 marks)
ii) Give a reason for your answer.	
i) Work out the size of angle <i>x</i> .	

Q1.

Que	stion	Working	Answer	Mark	Notes
10	(i) (ii)	360 - 140 - 60 = 160	160 and reason	2	B1 for 160 C1 (indep) for <u>Angles</u> at a <u>point</u> add up to <u>360(*)</u> or <u>angles</u> in a <u>full</u> <u>turn</u> add up to <u>360(*)</u>

Q2.



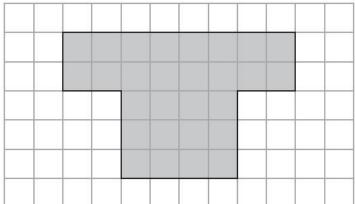
DAC, FCB and ABE are straight lines.

Work out the size of the angle marked x. You must give reasons for your answer.

(Total for Question is 5 marks)

	Working	Answer	Mark	Notes
*	(Method 1) Angle ACB = 180 – 135 (= 45) (sum of angles on a straight line = 180) Angle ABC = 180 – 70 – 45 (=65) (sum of angles in a triangle = 180) (x =) 180 – 65 (=115) (sum of angles on a straight line = 180) OR (Method 2) Angle ACB = 180 – 135 (= 45) (sum of angles on a straight line = 180) (x =) 70 + 45 (=115) (exterior angle = sum of interior opposite angles) OR (Method 3) Angle DAB = 180 – 70 = 110 (sum of angles on a straight line = 180) (x =) 360 – 135 – 110 (sum of exterior angles of a polygon = 360)	x = 115	5	M1 for correct method to find angle <i>DAB</i> or angle <i>ACB</i> or angle <i>ABC</i> (may be implied by correct angle marked in diagram) M1 for complete correct method to find <i>x</i> A1 for <i>x</i> = 115 C2 (dep on M1) for fully correct reasons for chosen method no extras (C1 (dep on M1) for one correct reason for chosen method) [NB <i>x</i> = 115 must be stated explicitly, 115 only scores A0]

Q3. Here is a shaded shape drawn on a centimetre grid.



(a) How many lines of s	ymmetry	/ does	the shad	ded sh	hape	have?	?				
								 	 	 	(1)
(b) Find the perimeter o	f the sha	aded sl	hape.								
								 	 	 	cm
Here is a rectangle.											
						: 51			NOT drav		
9 cm											
			16 cm								

(c) Work out the area of this rectangle.

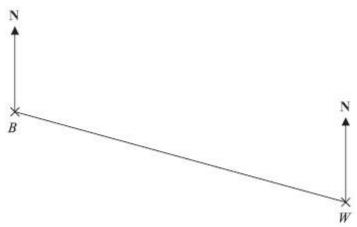
..... cm²

(2)

PAPER: 13	MA0 2F		200		
Question	Working	Answer	Mark	Notes	
(a)		1	1	B1 cao	
(b)		26	1	B1 cao	
(c)		144	2	M1 for 16 × 9 A1 cao	

Q4.

The diagram shows the positions of two villages, Beckhampton (B) and West Kennett (W).



Scale: 4 cm represents 1 km.

(a)	Work	cout the rea	distance, in	km, of	Beckhampton	from \	West Kennett.
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(2)

The village, Avebury (A), is on a bearing of 038° from Beckhampton.

On the diagram, A is 6 cm from B.

(b) On the diagram, mark *A* with a cross (x). Label the cross *A*.

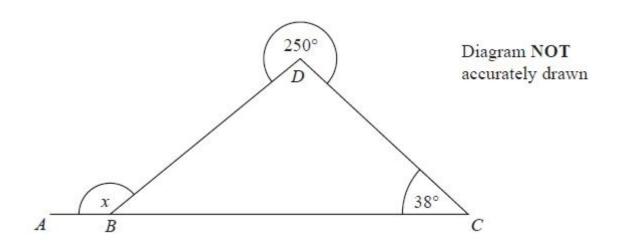
(2)

(Total for Question is 4 marks)

Q4.

	Working	Answer	Mark	Notes
(a)		2.5	2	M1 for 10 (cm) or "10" ÷ 4 A1 for 2.45 – 2.55
(b)		A marked on diagram	2	M1 for a point marked (or line drawn) on a bearing of 038° from either point B or point W, OR for a point marked (or arc drawn) 6 cm from B A1 for the position of Avebury marked (accept without label if not ambiguous)

Q6.



ABC is a straight line. Angle $BCD = 38^{\circ}$ The reflex angle $BDC = 250^{\circ}$

Work out the size of the angle marked *x*. Give reasons for your answer.

(Total for Question is 4 marks)

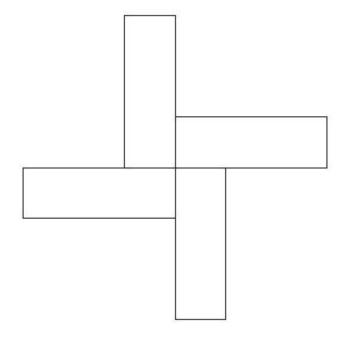
PAPER: 1				
Question	Working	Answer	Mark	Notes
*		148°	4	M1 for (angle BDC =) 360 – 250 (=110) M1 (dep) for 180 – (180 – '110' – 38) (=148) or for '110' + 38 (=148) C2 (dep on M2) for x = 148 with full reasons, relevant to the complete correct method used, for example: Angles at a point add up to 360° and angles in a triangle add up to 180°; or Angles at a point add up to 360° and angles on a straight line add up to 180°; Or Angles at a point add up to 360° and exterior angle of a triangle is equal to the sun of the interior opposite angles or (C1 (dep on at least M1) for one reason relevant to correct method)

Q7.

Here is a rectangle.



The 12-sided shape below is made from 4 of these rectangles.



Work out the perimeter of the shape.

 . cn

(Total for Question is 3 marks)

Ouestion	Working	Answer	Mark	Notes										
		80	3	M1 for intention to find missing side length 10 – 4 (= 6) or perimeter of 4 rectangles eg 4 × (10 + 4 + 10 + 4) (=112) M1 for complete method to find perimeter eg 4 × (10 + 4 + '6') or '112' – 8 × 4 A1 cao										

(Higher and Foundation)

Q8.

Here is a right-angled triangle.

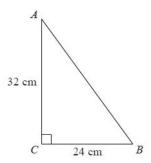


Diagram NOT accurately drawn

(a) Work out the length of AB.

..... cm (3)

Inderpal is making two mirrors.

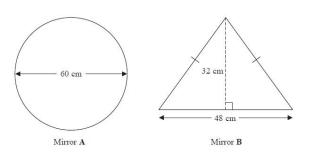


Diagram **NOT** accurately drawn

Mirror **A** is in the shape of a circle. This mirror has a diameter of 60 cm.

Mirror ${\bf B}$ is in the shape of an isosceles triangle.

This mirror has base 48 cm and height 32 cm.

Inderpal buys metal strips to put around the edge of each mirror. The metal strip is sold in lengths of one metre. Each one metre length of metal strip costs £5.68

(b) Work out the total amount Inderpal pays. You must show all your working.

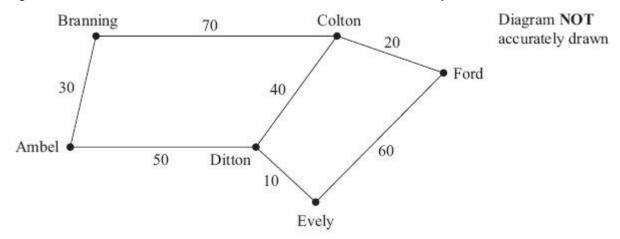
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(Total for Question is 7 marks)

Question	Working	Answer	Mark	Notes
(a)		40	3	M1 for $32^2 + 24^2$ M1 for $\sqrt{1600}$ or $\sqrt{(32^2 + 24^2)}$ A1 cao
(b)		22.72	4	M1 for use of π × 60 oe M1 for method to calculate perimeter of triangle, eg 2 × '40' + 48 (=128) M1(dep M2) for complete method to find total length of strip for both mirrors or to find the cost of strip for one mirror, eg 2 × £5.68 A1 for £22.72 from correct working

Q9.

The diagram shows the distances, in kilometres, between some towns, by road.



Work out the shortest distance between Ambel and Ford by road.

(Total for Question is 2 marks)

Q9.

Working	Answer	Mark	Notes
	110	2	M1 for 30 + 70 + 20 (=120) or 50 + 40 + 20 (=110) or 50 + 10 + 60 (=120) A1 cao

Q10.

Complete this table.

Write a sensible unit for each measurement.

	Metric	Imperial	
The length of a pencil	centimetres		
The weight of a tomato		ounces	
The amount of milk in a bottle		pints	

(Total for Question is 3 marks)

Q10.

Working	Answer	Mark	Notes
	inches grams litres	3	B1 for inch(es) or ins B1 for gram(s) or g B1 for litre(s) or / or millilitre(s) or m/ (accept centilitres or cc or c/ or cm³)