Paper: 1MA1/2F				
Question	**Working**	**Answer**	**Mark**	**Notes**
9 (a) **Q1**		2.75	M1 A1	for accurately measuring the distance between Backley and Cremford as 5.3 cm – 5.7 cm oe or their measurement × 0.5 oe for answer in the range 2.65 to 2.85
(b)		130	B1	for answer in the range 128 to 132

Paper: 1MA1/3F				
Question	**Working**	**Answer**	**Mark**	**Notes**
8 **Q2**		30	M1 A1	for 12 m = 1.9 to 2 cm or for a scale factor of 2.25 to 2.75 (comparing length of bus with height of the building) or a **complete** method using the height of the bus to compare with the height of the building. answer in range 27 to 33

Paper: 1MA1/1F				
Question	**Working**	**Answer**	**Mark**	**Notes**
13 (a (b) **Q3**		1.5 to 2 7.5 to 12	B1 M1 A1	in the range 1.5 to 2 for scale factor in the range 5 to 6 (ft) or for answer in the range 7.5 to 12

Paper: 1MA1/2F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
8 **Q4**	263.2	M1 A1	for using the scale eg 14 × 18.8 **or** 14 × 18 **or** for the digits 2632 **or** an answer of 263 cao	

Paper: 1MA1/3F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
12 **Q5**	69.2	B1 P1 P1 P1 A1	for a correct measurement of either length or width, eg 11.5 (cm) **or** 5.8 (cm) for process to find actual dimensions, eg [length] × 200 (= 2300) **or** [width] × 200 (= 1160) (indep) for process to convert to metres [length in cm] ÷ 100 eg "2300" ÷ 100 (= 23) **or** "1160" ÷ 100 (= 11.6) (indep) for process to find the perimeter, eg"23" × 2 + "11.6" × 2 (= 69.2) **or** "11.5" × 2 + "5.8" × 2 (= 34.6) for an answer in the range 67.6 to 70.8	Allow measurements 11.3 to 11.7 cm and 5.6 to 6.0 cm NB: could work in mm [length] in the range 11.0 to 12.0 [width] in the range 5.0 to 6.5 NB: could work in mm This mark can be awarded for the conversion of any amount in cm to m (ie not from an area) calculations could be in cm or in m and could be scaled or unscaled figures SC: award 3 marks for an answer in the range 67.6 to 70.8 using measurements outside the above ranges

Paper: 1MA1/1F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
13 (a)	025	B1	for angle in the range 23 to 27	Accept without the initial 0, eg. 25
(b)	1.25	M1	for measurement of *AB* in the range 4.8 to 5.2 (cm) or 48 to 52 (mm)	Could be just seen on the diagram
		M1	for "5" × 25000 (= 125000) or "50" × 25000 (= 1250000)	125000 or 1250000 seen implies M1M1
			or "5" ÷ 100000 (= 0.00005) or "50" ÷ 1000000 (= 0.00005)	For the award of this mark, "5" or "50" can be any value in the range 4 to 6 or 40 to 60
Q6			**or** 25000 ÷ 100000 (= 0.25) or 25000 ÷ 1000000 (= 0.025)	
		A1	for answer in the range 1.2 to 1.3	

Paper: 1MA1/2F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
5 **Q7**	7cm by 4cm rectangle drawn	M1 A1	for a rectangle drawn with one correct dimension **or** 35 ÷ 5 (=7) and 20 ÷ 5 (=4) for a fully correct 7cm by 4cm rectangle drawn	Correct calculations/measurements seen the method mark can be awarded even if the drawing is incorrect or not present Accept any orientation of a correct rectangle

Paper: 1MA1/2F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
16 **Q8**	47	P1 P1 A1	for process to find scale factor eg 62 ÷ 12.4 (= 5) **or** 12.4 ÷ 62 (= 0.2) **or** 9.4 ÷ 12.4 (= 0.758...) **or** 12.4 ÷ 9.4 (= 1.31..) for process to use the scale factor eg "5" × 9.4 **or** 9.4 ÷ "0.2" **or** 62 × "0.758.." **or** 62 ÷ "1.31.." Accept answers in the range 46.5 to 47.7	Note 1:500 is an acceptable scale factor Accept working in mixed units or with inconsistent units eg 620 ÷ 12.4 (= 50) for process marks only

Paper: 1MA1/3F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
13 (a)	300	M1	for a correct method to measure and convert one line to a distance in metres, eg. (*AB* =) 5 × 150 (= 750 or in the range 720 to 780) or (*BC* =) 4 × 150 (= 600 or in the range 570 to 630) or (*AC* =) 7 × 150 (= 1050 or in the range 1020 to 1080) **or** for 5 + 4 – 7 (=2 or in the range 1.4 to 2.6)	Accept measurements given in mm instead of cm for the first mark. Accept measurements given to a tolerance of ±2mm
Q9		M1	for a complete method, eg. "750" + "600" – "1050" **or** "2" × 150	Where "750", "600", "1050" and "2" have come from their measurements
		A1	for answer in the range 210 to 390	
(b)	288	B1	for answer in the range 286 to 290	

Paper 1MA1: 2F				
Question	**Working**	**Answer**	**Mark**	**Notes**
16 **Q10**		*T* shown on the map	C1 C1 C1	for showing a perpendicular bisector or point *T* equidistant from points *B* and *C*. for a circle or arc of circle of radius 2.5 cm or point *T* 2.5 cm from point *A* for *T* shown in correct position

Pape: 1MA1/1F				
Que. tion	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
27 (i)	Distance in the range 20 to 23	P1	for a process to draw a bearing of 070°, eg. a line drawn 70° from the North line at *P*	Accept a line of any length as long as the intention is clear.
(ii)	Bearing in the range 317 to 330	P1	for a process to work out the distance *PQ*, eg. 12 × 1.5 (= 18)	
Q11		P1	(dep previous P1) for the process to use the given scale eg. "18" ÷ 4 (= 4.5 cm)	Award P3 for Q shown in the correct place on the diagram. 4.5 scores 2 marks provided there is a link to 12 × 1.5 (= 18)
		A1	(dep P3) for distance in the range 20 to 23	Award no marks if no supportive processes
		A1	(dep P3) for bearing in the range 317 to 330	Award no marks if no supportive processes Award A0A0 if *Q* is not in the correct place

Paper: 1MA1/2F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
19 **Q12**	Shaded region	M1 M1 M1 A1	for 180 ÷ 30 (= 6) or 150 ÷ 30 (= 5) draws an arc of radius "6 cm" centre *A* or draws a line segment parallel to *BC* and "5 cm" away for an arc of radius "6 cm" centre *A* **and** a line parallel to BC and "5 cm" away with no additional arcs or lines drawn Answer within tolerance with region shaded	This may be just used in a correct locus drawn on the diagram Ignore any additional arcs or lines drawn Accept shading out leaving the required region unshaded

Paper: 1MA1/3F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
17 **Q13**	9	M1 A1	for a method to find the scaling factor eg "10.8" ÷ "1.8" (= 6) or "1.8" ÷ 1.5 (=1.2) or 1.5 ÷ "1.8" (=0.833..) **or** a sf given from 5.5 to 6.5 or from 1.06 to 1.4 or from 0.75 to 0.94 eg used with 1.5 accept an answer in the range 8 to 10	Could be shown on the diagram by appropriate working eg 6 steps Allow 10.6 to 11.0 and 1.6 to 2.0 for their measured lengths.

Paper: 1MA1/3F				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
12 (a)	50	M1	[2.5] × 20 (=50)	[2.5] a number in the range 2.3 to 2.7 or identified as the distance from Shelton to Trilby
		A1	for an answer in the range 46 to 54	
(b)	60	M1	5 × 1200 (=6000) **or** 1200 ÷ 100 (=12) **or** conversion 5 ÷ 100 (=0.05)	
Q14		A1	cao	