1)	correct ruled line two pairs of correct arcs		1 1					
	correct ruled line two pairs of correct arcs							
2)	Angle	or triangle [in a] semi-circle		1				
					π			
3)	Triangle drawn correctly with ruler and arcs		3 M1 for one side drawn to correct length					
				and M1 for clear method of crossing arcs even if wrong scale or inaccurate				
4)	(a)	Perpendicular bisector drawn with 2 pairs of <u>arcs</u> and <u>ruled</u>	n <u>d</u>	2 SC1 for one pair or 2 pair	a ruled pe	rpendicular without arcs or only ct arcs with no line drawn		
	(b)	Circle drawn radius 4cm		1				
	(c)	Correct region shaded		1 Depend (b) to en	ent on SC nclose corr	1 in (a) and an arc, radius 4cm in ect area		
	I	1	I					
5)	(a) 2	1						
	(b) Bo	th lines drawn 1						
6)	(a) Angle bisector with correct arcs			B1 for correc correct arcs w	B1 for correct line, with incorrect or no arcs or correct arcs with incorrect or no line			
	(b) Perp corre	endicular bisector with two ect pairs of arcs	2	B1 for correct line, with incorrect or no arcs or correct arcs with incorrect or no line				
	(c) Arc Corr	centre C, radius 7cm rect region shaded	1 1FT	FT <i>their</i> arc centre C				
7)	(a)	Circle, radius 3 cm, centr rectangle	e A, not i	nside the	2	M1 for arc or full circle centre A radius 3 cm or for an incorrect size circle at A outside rectangle		
	(b)	One line of symmetry with	th correct	arcs				
		E.g.			2	B1 for correct ruled line (must reach or cross two sides)B1 for 2 pairs of correct intersecting arcs		
					1	1		

Scale drawing / Loci / symmetry P1 Answers

8)	(a)		1			
	(b)					
			1	Many other answers		
9)	Perpendicular bisector of AB with 2 pairs of arcs			2 SC1 accurate, but without arcs		
10)	(a)	Pentagon	B1			
	(b) (i)	61 to 63	B1			
	(ii)	AE = 6.3 to 6.5 cm and $DE = 5.7 \text{ to } 5.9 \text{ cm}$	B1			
		correct arcs seen	B1	accept concave polygon SC1 if lengths reversed and with arcs		
	(c) (i)	perpen.bisector of BC correct arcs seen	B1 B1	+/- 1mm and +/- 1 degree accuracy		
	(ii)	bisector of angle ABC correct arcs seen	B1 B1	+/- 1 degree accuracy		
	(d)	"M" correctly marked	B1	dep. on at least first B1 in each part of (c)		