



Q	Answer	Marks
1	The set of points less than 4 cm from P is the inside of a circle, centre P, radius 4 cm - not a square. The corners of Sam's square are further than 4 cm from P.	1
2	A circle with centre A and radius 5 cm	1
3	Compasses open to more than half of AB. Draw arcs above and below AB from centre A, then with the same radius from centre B, so they cross at two points. Join the two crossing points with a straight line.	3
4	The perpendicular bisector of the line segment joining Ashford and Bexley - the straight line at right angles to it, passing through its midpoint, 30 km from each town	2
5	a) $y = 5$ b) No, because it is above the line $y = 5$, so it is closer to B	2
6	a) The angle bisector of QPR b) 35 degrees	2
7	a) a circle, centre the post, radius 7 m b) 153.9 m^2	3
8	a) A rectangle 10 m by 4 m with a semicircle of radius 2 m added at each end b) 52.6 m^2	4
9	84.8 m^2	3
10	Shade the part of the garden between AB and the mid-line parallel to AB (the line 3 cm from AB on the drawing) and outside the arc of radius 3 cm centred at A (6 m at scale 1 cm : 2 m)	4

Full worked solutions, written out by hand, are on the solutions sheet for this topic.