Answers and mark guide

Q	Answer	Working	Marks
1	**A circle with centre P and radius 3 cm**	All points at the same distance form a circle.	2
2	**The perpendicular bisector of AB**	Equidistant from two points.	2
3	**The angle bisector**	Equidistant from two lines.	2
4	**The inside of a circle of radius 5 cm, centre O**	Shade the inside of the circle.	2
5	**Draw arcs from A and B with the same radius (more than half of AB) so they cross above and below; join the crossing points**	Equal arcs from both ends.	3
6	**Draw an arc from B cutting both arms; from each cut point draw equal arcs that cross; join B to the crossing point**	Equal arcs from the two cut points.	3
7	**Draw an arc from P that cuts the line twice; draw equal arcs from these two points that cross; join P to the crossing point**	Equal arcs from the cut points.	3

Q	Answer	Working	Marks
8	**Draw an arc from a point on the line; with the same radius draw an arc from where the first arc meets the line; join the point to where the arcs cross**	This makes an equilateral triangle.	3
9	**Draw a 6 cm line; from each end draw arcs of radius 6 cm; join the crossing point to both ends**	All three sides are 6 cm.	3
10	**9π m²**	$\pi \times 3^2$	4
11	**18π m²**	$\frac{1}{2} \times \pi \times 6^2$	4
12	**900π km²**	$\pi \times 30^2$	4
13	**28.3 m²**	$\pi \times 3^2$	4
14	**Inside the circle of radius 3 cm around A and on A's side of the perpendicular bisector of AB**	Combine the two loci.	5
15	**The points on the angle bisector that are 5 m from T**	Intersection of a circle and the angle bisector.	5
16	**24.6 cm**	A stadium shape: two straight lines of 6 cm and two semicircles of radius 2 cm.	5
17	**The region on AB's side of the line at 45° through B**	Points equidistant from AB and BC lie on the angle bisector at B.	4
18	**The two points where circles of radius 6 cm around A and B cross: 2 points**	Intersection of two circles.	5
19	**A circle with centre P and radius 6 cm**	Same distance from P.	2

Q	Answer	Working	Marks
20	**A circle with centre P and radius 5 cm**	Same distance from P.	2

My score: _____ / 67 Questions 1–15 = 49 marks (Foundation focus)