



Q	Answer	Marks
1	Arcs of equal radius (more than 4 cm) drawn from A and from B, crossing above and below AB; the straight line through the two crossing points is the perpendicular bisector, cutting AB at its midpoint at 90 degrees	2
2	Arc from B crossing both arms, equal arcs from those two points crossing inside the angle, line from B through the crossing; each half measures 38° (accept 36° to 40°)	2
3	Draw AB = 7 cm; arcs of radius 5 cm from A and from B cross at C; joining AC and BC gives the required isosceles triangle	2
4	Base 6 cm, arcs of radius 6 cm from each end crossing at the third vertex; each angle is 60°	2
5	Equal arcs from M crossing the line either side at X and Y, then larger equal arcs from X and Y crossing above the line; the line through M and that crossing point is perpendicular to the original line at M	2
6	Arc from A crossing AB at X, arc of the same radius from X crossing the first arc; the line from A through that crossing point makes 60° with AB	2
7	An arc from P crossing the line at two points, then arcs of equal radius from those two points crossing below the line; the line from P through that crossing point is perpendicular to the original line	2
8	Construct the perpendicular to the line at A (90°), then bisect the 90° angle; the bisector makes 45° with the line	3
9	a) open: The perpendicular from T to the fence, found by an arc from T cutting the fence twice and equal arcs from those points crossing on the other side b) open: The shortest distance from a point to a line is along the perpendicular, which meets the line at 90°	3
10	AB = 7 cm drawn, 60° at A constructed with two arcs of equal radius, C marked 5 cm along that line with compasses, then C joined to B	3
11	a) open: PQ = 8 cm; 45° at P by bisecting a constructed right angle; 60° at Q by two equal arcs; R where the lines cross b) 75°	4
12	a) open: PR = 8 cm drawn; arcs of radius 5 cm from P and from R cross above the line at Q and below at S; join PQ, QR, RS, SP b) 6 cm	4

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