



Q	Answer	Marks
1	a) ABC (or CBA) b) BC c) ACB (or BCA)	3
2	a) 116 b) angles on a straight line add up to 180 degrees	2
3	$x = 97$ (angles around a point add up to 360 degrees)	2
4	a) 38° (vertically opposite angles are equal) b) 142° (angles on a straight line add up to 180°) c) 142° (vertically opposite to b)	3
5	a) 63° (AB and CD are perpendicular, so angle BOC = 90°) b) 63° (vertically opposite to x)	3
6	a) 65° (alternate angles are equal) b) 65° (corresponding angles are equal) c) 115° (co-interior angles add up to 180°)	4
7	$x = 109$ (co-interior angles between parallel lines add up to 180 degrees)	3
8	a) They are alternate angles, and alternate angles are equal b) 95°	3
9	118°	4
10	69°	4
11	$104^\circ + 76^\circ = 180^\circ$; angle QPB and angle PQD are co-interior angles; co-interior angles adding to 180° means the lines are parallel	4
12	Angle DAB = p and angle EAC = q (alternate angles), and $DAB + r + EAC = 180^\circ$ (angles on a straight line), so $p + q + r = 180^\circ$	3

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