



Q	Answer	Marks
1	a) A and C b) parallelogram	2
2	a) SAS b) not necessarily congruent c) RHS d) ASA	4
3	$x = 35$	3
4	a) $x = 62$ (corresponding angles are equal) b) $z = 62$ (alternate angles are equal) c) $y = 118$ (angles on a straight line add up to 180°)	3
5	118°	4
6	Angle PQR = 68 (straight line), angle PRQ = $180 - 44 - 68 = 68$ (angles in a triangle), so two angles are equal and the triangle is isosceles.	4
7	Angle ACB = $180 - a - b$ (angles in a triangle add up to 180°), so angle ACD = $180 - (180 - a - b) = a + b$ (angles on a straight line add up to 180°)	3
8	a) exterior 45° , interior 135° b) Hexagon: $120^\circ \times 3 = 360^\circ$, so three fit round a point. Pentagon: 108° , and 360 is not a multiple of 108, so there is a gap	4
9	135°	4
10	55°	5
11	Triangle ABD is congruent to triangle ACD by SAS	3
12	82°	5
EXTENSION QUESTIONS		
13	a) 150° b) 15°	5

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