ANGLES AND PLANE FIGURES MARKING SCHEME

1.	< AHC = < DCI = 63^0 < HCB = < ABG = 30^0 < G CJ = $180^0 - (30^0 + 63^0)$ = 87^0 **1989Q8**	2M
2	< BCD = < CDE + < CEO < CED = $180^0 - 70^0$ = 110^0 133^0 **1991Q10**	3M
3.	SR=RQ ; <QRS = 55^0 <SQP= 55^0 ALT to <RSQ <STQ = $90^0 - 55^0 = 35^0$ OR $180^0 - (90^0 + 55^0)$√ =350 √ **1997Q3**	B1 B1 2 marks
4.	(a) < CDF = $110^0 - 60^0 = 50^0$ (b) < ABD = < BDE = 25^0 Both reasoning given and both Reasoning given wrong – ow-1 One reason given (right or wrong) Ow-1 **1998Q4**	A1 B1 1F 3marks
5.	2n-4 right angles 2x 9 – 4 =14 right angles 14 x 90^0= 1260^0 **1999Q3**	 M1 A1 2 marks
6.	a) <BAE = 540^0 = 108^0 b) <BAE - $108^0 - 36^0 - 72^0$ c) <BNM = $90^0 - 36^0$ = 54^0 **2000Q3**	B1 B1 B1 3 marks
7.	angle sum of interior angles = 90(2n – 4) = 90(12-4) = 720^0 2x ^{0} + $^1/_2$x^0 + 40^0 + 110^0 + 130^0 + 160^0 =720^0 2.5x0 = 720^0 -440^0 2.5x =280^0 2.5x = 280^0 x^0 =112^0 smallest angle is ½ x^0 + 40^0 = ½ x 112 + 40^0 = 960^0 **2001Q14**	B1 B1 B1 3 marks

8.	(180^0-156^0)n=36^0 24n=36^0 N=$^{360}/_{24}$ = 15 **2004Q2**	 M1 A1
9.	6x = 3600 x = 600 (180-60)n = 360 120n = 360 N = 3 **2005Q5**	B1 M1 A1 3 marks
10.	a). <ADE = 180^0-108^0 = 360 b). <AEF = (180^0-(108^0-60^0)÷2 c). <DAE =108^0 –(60^0+36^0) =12^0 **2006Q4**	B1 B1 B1 3 marks
11.	3x + (x-20) = 180^0 4x = 200^0 X = 50^0 (x-20)n=360 30n=360 n = 12 **2007Q2**	A1 M1 A1 3 marks
12.	Let exterior < = < at the centre) be x 6.5x + x = 180 7.5x = 180 X = 240 No of sides = $^{360}/_{24}$ = 15 sides **2009Q10**	M1 M1 1 3 Marks