Answers and mark guide

Q	Answer	Working	Marks
1	**2160°**	(14 − 2) × 180°	2
2	**360°**	Exterior angles of any polygon sum to 360°.	1
3	**40°**	360 ÷ 9	2
4	**120°**	720 ÷ 6	3
5	**720°**	(6 − 2) × 180°	2
6	**12**	360 ÷ 30	3
7	**20**	Exterior angle = 18°; 360 ÷ 18	3
8	**70°**	360 − 290	2
9	**1800°**	(12 − 2) × 180°	2
10	**115°**	540 − 425	3
11	**70**	7x + 50 = 540	5
12	**15**	Exterior = 24°; 360 ÷ 24	4
13	**10**	Interior + exterior = 180°, so exterior = 36°	5
14	**135°**	(8 − 2) × 180 ÷ 8	3
15	**3240°**	20 sides; (20 − 2) × 180	4
16	**105°**	360 − 120 − 135	5
17	**Exterior angle = 360/n and interior + exterior = 180°**	Standard result.	5
18	**192°**	360 − 108 − 60	5
19	**12**	Interior = 150°, exterior = 30°	5
20	**35**	n(n − 3)/2	5

My score: _____ / **69** Questions 1–15 = 44 marks (Foundation focus)