Answers and mark guide

Q	Answer	Working	Marks
1	**84°**	Angles on a straight line add to 180°: 180 − 96 = 84.	1
2	**134°**	Angles around a point add to 360°: 360 − 226.	2
3	**107°**	Vertically opposite angles are equal.	1
4	**55°**	Right angle = 90°: 90 − 35.	1
5	**118°**	Angles on a straight line add to 180°: 180 − 62 = 118.	1
6	**51°**	Angles in a triangle add to 180°: 180 − 69 − 60.	2
7	**58°**	(180 − 64) ÷ 2	2
8	**64°**	180 − 2×58	2
9	**72°**	Angles in a quadrilateral add to 360°: 360 − 288	2
10	**97°**	The exterior angle equals the sum of the two opposite interior angles.	3
11	**31**	Sum of angles = 180°. Solve the equation to get x = 31.	3
12	**29**	6x + 6 = 180, so x = 29	3
13	**35**	The angles add to 360°.	3
14	**720°**	(6 − 2) × 180	3
15	**108°**	Exterior angle = 360 ÷ 5 = 72°; interior = 180 − 72	3
16	**(a) x = 31 (b) 82°**	Angles add to 180°, so x = 31. Substitute into each expression: 52°, 82°, 46°.	4
17	**(a) x = 30 (b) 85°**	Angles add to 180°, so x = 30. Substitute into each expression: 85°, 25°, 70°.	4
18	**(a) x = 40 (b) 105°**	Angles add to 180°, so x = 40. Substitute into each expression: 35°, 40°, 105°.	4
19	**15**	360 ÷ 24	4
20	**40**	A pentagon's angles add to 540°.	4

My score: _____ / 52 Questions 1–15 = 32 marks (Foundation focus)