Answers and mark guide

Q	Answer	Working	Marks
1	**84**	4 × 7 × 3	3
2	**10000**	10^4	3
3	**168**	7 × 6 × 4	3
4	**32**	2^5	3
5	**67600000**	26^2 × 10^5	3
6	**60**	5 × 4 × 3	4
7	**3024**	9 × 8 × 7 × 6	4
8	**336**	8 × 7 × 6	4
9	**120**	5!	4
10	**720**	6P5	4
11	**125**	5^3	4
12	**50**	The last digit is 2 or 4 (2 ways); the other digits 5 × 5	5
13	**36**	Last digit 1, 3 or 5 (3 ways); then 4 × 3	5
14	**676000**	26^2 × 10^3	4
15	**24**	4!	4
16	**48**	Treat the girls as one block: 4! × 2!	6
17	**9000**	9 × 10 × 10 × 10	5
18	**60**	Last digit 5; others 5 × 4 × 3	6
19	**30**	5! ÷ (2! × 2!)	6
20	**56**	8 × 7 × 6 ÷ 6	6

My score: _____ / 86 Questions 1–15 = 57 marks (Foundation focus)