Answers and mark guide

Q	Answer	Working	Marks
1	**144**	12×12 = 144	1
2	**7**	7×7 = 49	1
3	**64**	8×8 = 64	1
4	**4**	4×4 = 16	1
5	**9**	3×3 = 9	1
6	**337**	Cube = multiply by itself three times.	2
7	**27**	Cube = multiply by itself three times.	2
8	**12**	Cube = multiply by itself three times.	2
9	**125**	Cube = multiply by itself three times.	2
10	**174**	Cube = multiply by itself three times.	2
11	**72**	Evaluate each power or root, then combine.	3
12	**15**	Evaluate each power or root, then combine.	3
13	**−2**	Evaluate each power or root, then combine.	3
14	**13**	Evaluate each power or root, then combine.	3
15	**125**	Evaluate each power or root, then combine.	3
16	**13**	Work out each part carefully; take cube roots by recognising cube numbers.	4
17	**5**	Work out each part carefully; take cube roots by recognising cube numbers.	4
18	**17**	Work out each part carefully; take cube roots by recognising cube numbers.	4
19	**3^4 (81) is larger than 4^3 (64) by 17**	Work out each part carefully; take cube roots by recognising cube numbers.	4
20	**40**	Work out each part carefully; take cube roots by recognising cube numbers.	4

My score: _____ / **50** Questions 1–15 = 30 marks (Foundation focus)