
GCSE Mathematics

Indices & Roots Practice

Mark Scheme - Foundation, Grade 4-6

M = method mark, A = accuracy mark (dependent on the preceding M mark), B = independent mark.

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Edexcel-style questions

Q1 Grade 4 Edexcel style **Total: 1**

Part	Mark scheme	Marks
(a)	3^6	B1

Q2 Grade 4 Edexcel style **Total: 1**

Part	Mark scheme	Marks
(a)	2^{12}	B1

Q3 Grade 5 Edexcel style **Total: 1**

Part	Mark scheme	Marks
(a)	1	B1

Q4 Grade 4 Edexcel style **Total: 1**

Part	Mark scheme	Marks
(a)	12	B1

Q5 Grade 6 Edexcel style **Total: 1**

Part	Mark scheme	Marks
(a)	5	B1

AQA-style questions**Q6** Grade 4 AQA style**Total: 1**

Part	Mark scheme	Marks
(a)	a^3	B1

Q7 Grade 4 AQA style**Total: 1**

Part	Mark scheme	Marks
(a)	x^{10}	B1

Q8 Grade 5 AQA style**Total: 1**

Part	Mark scheme	Marks
(a)	$\frac{1}{8}$	B1

Q9 Grade 4 AQA style**Total: 1**

Part	Mark scheme	Marks
(a)	4	B1

Q10 Grade 6 AQA style**Total: 1**

Part	Mark scheme	Marks
(a)	2	B1

OCR-style questions**Q11** Grade 4 OCR style**Total: 1**

Part	Mark scheme	Marks
(a)	5^4	B1

Q12 Grade 4 OCR style**Total: 1**

Part	Mark scheme	Marks
(a)	3^6	B1

Q13 Grade 5 OCR style**Total: 1**

Part	Mark scheme	Marks
(a)	$\frac{1}{25}$	B1

Q14 Grade 4 OCR style**Total: 1**

Part	Mark scheme	Marks
(a)	15	B1

Q15 Grade 6 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$27^{\frac{1}{3}} = 3$	M1
(a)	9	A1

Teachably-style questions

Q16 Grade 4 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	b^7	B1

Q17 Grade 4 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	y^{12}	B1

Q18 Grade 5 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	9	B1

Q19 Grade 4 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	-3	B1

Q20 Grade 6 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$16^{\frac{1}{4}} = 2$	M1
(a)	8	A1

END OF PAPER

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