

Name:

Date:

Power and Roots

GCSE

Edexcel
Mathematics
Grade (9-1)

Mark

Score (%)

<hr/> 20

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Materials

For this paper you must have:

- Ruler
- Pencil, Rubber, Protractor and Compass
- Scientific calculator, which you are expected to use when appropriate

Instructions

- Answer all questions
- Answer questions in the space provided
- All working must be shown
- Do all rough work in this book. Cross out any rough work you don't want to be marked

Information

- The marks for the questions are shown in brackets

		Leave blank
1	Work out 2^3	
	..... (Total for question 1 is 1 mark)	<input type="text"/>
2	Work out the cube root of 64	
	..... (Total for question 2 is 1 mark)	<input type="text"/>
3	Write down the value of $\sqrt{49}$	
	..... (Total for question 3 is 1 mark)	<input type="text"/>
4	Write down the value of 3^2	
	..... (Total for question 4 is 1 mark)	<input type="text"/>
5	Write down a square number that is also an even number.	
	..... (Total for question 5 is 1 mark)	<input type="text"/>
6	Write down the value of 5^2	
	..... (Total for question 6 is 1 mark)	<input type="text"/>
7	Work out 10^4	
	..... (Total for question 7 is 1 mark)	<input type="text"/>
8	Write down the value of $\sqrt{36}$	
	..... (Total for question 8 is 1 mark)	<input type="text"/>

		Leave blank
9	Work out 2^4	
	..... (Total for question 9 is 1 mark)	<input type="text"/>
10	Work out the cube root of 27	
	..... (Total for question 10 is 1 mark)	<input type="text"/>
11	Write down the value of $\sqrt{81}$	
	..... (Total for question 11 is 1 mark)	<input type="text"/>
12	Write down the value of 4^2	
	..... (Total for question 12 is 1 mark)	<input type="text"/>
13	Write down a square number that is also an odd number.	
	..... (Total for question 13 is 1 mark)	<input type="text"/>
14	Work out 5^3	
	..... (Total for question 14 is 1 mark)	<input type="text"/>
15	Write down the value of 8^2	
	..... (Total for question 15 is 1 mark)	<input type="text"/>
16	Work out the value of 5×10^3	
	..... (Total for question 16 is 1 mark)	<input type="text"/>

17 Here is a list of numbers

4 6 8 11 12 15 16 25

From the list, write down all the numbers that are powers of 2.

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(Total for question 17 is 1 mark)

18 Write $5 \times 5 \times 5 \times 5$ as a power of 5

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(Total for question 18 is 1 mark)

19 Here is a list of numbers

5 9 11 16 20 25 32 38

From the list, write down all the square numbers.

.....

(Total for question 19 is 1 mark)

20 Here is a list of numbers

6 12 15 21 27 36 64 80

From the list, write down all the cube numbers.

.....

(Total for question 20 is 1 mark)