GCSE (1 – 9)

Powers and Roots

Instructions

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.

Information

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

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Work out 2 ³	
	(Total for Question 1 is 1 mark)
Work out the cube root of 64	
	(Total for Question 2 is 1 mark)
Write down the value of $\sqrt{49}$	
	(Total for Question 3 is 1 mark)
Write down the value of 3^2	
	(Total for Question 4 is 1 mark)
Write down a square number that is also an even number.	
	(Total for Question 5 is 1 mark)
Write down the value of 5^2	
	(Total for Question 6 is 1 mark)
Work out 10 ⁴	
	(Total for Question 7 is 1 mark)
Write down the value of $\sqrt{36}$	
	(Total for Question 8 is 1 mark)

9	Work out 2 ⁴	
		(Total for Question 9 is 1 mark)
10	Work out the cube root of 27	
		(Total for Question 10 is 1 mark)
11	Write down the value of $\sqrt{81}$	
		(Total for Question 11 is 1 mark)
12	Write down the value of 4 ²	
		(Total for Question 12 is 1 mark)
13	Write down a square number that is also an odd number.	
		(Total for Question 13 is 1 mark)
14	Work out 5 ³	
		(Total for Question 14 is 1 mark)
15	Write down the value of 8 ²	
		(Total for Question 15 is 1 mark)
16	Work out the value of 5×10^3	
		(Total for Ouestion 16 is 1 mark)

		4	6	8	11	12	15	16	25
	From the lis	t, write	down a	ll the n	umbers	that are	power	s of 2.	
							-		
_									(Total for Question 17 is 1 mar
	Write $5 \times 5 \times 5 \times 5$ as a power of 5								
									(Total for Question 18 is 1 mar
	Here is a list	t of nun	nbers						
		5	9	11	16	20	25	32	38
	From the list, write down all the square numbers.								
									(Total for Question 19 is 1 mar
	Hore is a list of numbers								
		6	12	15	21	27	36	64	80
	0 12 15 21 27 50 04 From the list write down all the cube numbers								
									(Total for Question 20 is 1 mar