



GRADE: VIII Date: 08/01/2024	CPE 2 (2023-24) MATHEMATICS	Marks: 20 Time: 50 minutes
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Name:

Class & Section:

Q.No.	Questions	Marks
	Multiple Choice Questions (Choose the correct answer)	
1	Which of the following is a perfect square? a) 24 b) 250 c) 4900 d) 3608	1
2	The square root of 17161 is 131. So, the square root of 171.61 is a) 0.131 b) 1.31 c) 13.1 d) 131.01	1
3	Which of the following is the cube of an odd number? a) 512 b) 64 c) 1728 d) 1331	1
4	By what number will you multiply $2 \times 2 \times 2 \times 7 \times 7$ to get a perfect cube? a) 2 b) 7 c) 14 d) 27	1
5	The simple interest on an amount of ₹100 at 1% rate of interest for a period of one year is a) ₹1 b) ₹10 c) ₹100	1

	d) ₹1000	
6	$3ab$ multiplied by $2a$ gives a) $6ab$ b) $6ab^2$ c) $6a^2b$ d) $5ab$	1
Fill in the blanks		
7	$1+3+5+7+9 = \underline{\hspace{2cm}}$	1
8	The cube root of $3^3 \times 5^3$ is equal to $\underline{\hspace{2cm}}$	1
9	The simple interest on ₹13000 for 3 years at 10% per annum is 3900. In this question the Principal is $\underline{\hspace{2cm}}$	1
10	$x^2 - (-x^2)$ is equal to $\underline{\hspace{2cm}}$	1
Short answer type questions		
11	Find the square root of 2048 up to two decimal places using pairing method.	2
12	Find the cube root of 9261 using prime factorisation.	2
Long answer type questions		
13	Find the time in which ₹2000 will become ₹2360 at 9% simple interest per annum.	3
14	Show that $x + 1$ is a factor of $4x^3 + 2x^2 - x + 1$	3

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