

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

## Name:

## **Class & Section:**

Q.No.	Questions	Marks
	Multiple Choice Questions (Choose the correct answer)	
1	c)4900	1
2	c)13.1	1
3	d)1331	1
4	b) 7	1
5	a) ₹1	1
6	c) $6a^2b$	1
	Fill in the blanks	
7	25	1
8	15	1
9	₹13000	1
10	$2x^2$	1
	Short answer type questions	
11	4 5 .2 5 4 4 20 48 .00 00 00 16 \( \psi \)	2

12	$ \frac{3   9261 }{3   3087 } $ $ \frac{7   343 }{7   49 } $ $ \therefore 9261 = 3 \times 3 \times 3 \times 7 \times 7 \times 7 $ $ 9261 = 3^{3} \times 7^{3} $ $ = (3 \times 7)^{2} $ $ \therefore \sqrt[3]{9261} = 3 \times 7 = 21 $	2
	Long answer type questions	
13	Principal = ₹2000	3
	Amount = ₹2360	
	Interest = ₹360	
	$SI = \frac{PTR}{100}$	
	₹360 = $\frac{2000 \times T \times 9}{100}$	
	T= 2 years	
14	Show that $x + 1$ is a factor of $4x^3 + 2x^2 - x + 1$	3
	When we divide $4x^3 + 2x^2 - x + 1$ by $x + 1$ , the remainder is zero.	
	Therefore, $x + 1$ is a factor of $4x^3 + 2x^2 - x + 1$	

Prepared by: Ms.Sruthy S Kumar Checked by: HOD/HOS Ms. Vidhya Rajesh