Name: **Grade:** **Score:**

Worksheet #4

MISSING DIGITS - CUBE ROOTS

Learning goal: Students will determine missing digits in numbers based on given cube root conditions and apply arithmetic operations to analyze relationships between values.

Instructions: Fill the table.

A	B	A + B	A - B
$\sqrt[3]{512} = \square$	$\sqrt[3]{125} = \square$		
$\sqrt[3]{729} = \square$	$\sqrt[3]{64} = \square$		
$\sqrt[3]{8} = \square$	$\sqrt[3]{27} = \square$		
$\sqrt[3]{343} = \square$	$\sqrt[3]{1} = \square$		
$\sqrt[3]{64} = \square$	$\sqrt[3]{216} = \square$		
$\sqrt[3]{27} = \square$	$\sqrt[3]{512} = \square$		

Instructions: Complete the table where A is a digit. Refer the below example.

$\sqrt[3]{2A} = 3$

we know that $\sqrt[3]{27} = 3$

Hence, A = 7

QUESTION	A	3A	A × A × A
$\sqrt[3]{(A4)} = 4$			
$\sqrt[3]{(A000)} = 10$			
$\sqrt[3]{(51A)} = 8$			
$\sqrt[3]{(A12)} = 7$			

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Name: **Grade:** **Score:**

Worksheet #4(Answers)

MISSING DIGITS - CUBE ROOTS

Learning goal: Students will determine missing digits in numbers based on given cube root conditions and apply arithmetic operations to analyze relationships between values.

Instructions: Fill the table.

A	B	A + B	A - B
$\sqrt[3]{512} = 8$	$\sqrt[3]{125} = 5$	8 + 5 = 13	8 - 5 = 3
$\sqrt[3]{729} = 9$	$\sqrt[3]{64} = 4$	9 + 4 = 13	9 - 4 = 5
$\sqrt[3]{8} = 2$	$\sqrt[3]{27} = 3$	2 + 3 = 5	2 - 3 = -1
$\sqrt[3]{343} = 7$	$\sqrt[3]{1} = 1$	7 + 1 = 8	7 - 1 = 6
$\sqrt[3]{64} = 4$	$\sqrt[3]{216} = 6$	4 + 6 = 10	4 - 6 = -2
$\sqrt[3]{27} = 3$	$\sqrt[3]{512} = 8$	3 + 8 = 11	3 - 8 = -5

Instructions: Complete the table where A is a digit. Refer the below example.

$\sqrt[3]{2A} = 3$

we know that $\sqrt[3]{27} = 3$

Hence, A = 7

QUESTION	A	3A	A × A × A
$\sqrt[3]{(A4)} = 4$	6	18	216
$\sqrt[3]{(A000)} = 10$	1	3	1
$\sqrt[3]{(51A)} = 8$	2	6	8
$\sqrt[3]{(A12)} = 7$	5	15	125