

Name: \_\_\_\_\_

Grade: \_\_\_\_\_

Score: \_\_\_\_\_

## Worksheet #5



## 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
$\sqrt[3]{343} = \square$	$\sqrt[3]{27} = \square$		
$\sqrt[3]{512} = \square$	$\sqrt[3]{125} = \square$		
$\sqrt[3]{216} = \square$	$\sqrt[3]{64} = \square$		
$\sqrt[3]{729} = \square$	$\sqrt[3]{8} = \square$		
$\sqrt[3]{1} = \square$	$\sqrt[3]{343} = \square$		
$\sqrt[3]{27} = \square$	$\sqrt[3]{64} = \square$		

**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
$\sqrt[3]{(5A2)} = 8$			
$\sqrt[3]{(72A)} = 9$			
$\sqrt[3]{(A43)} = 7$			
$\sqrt[3]{(A7)} = 3$			

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

**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
$\sqrt[3]{(5A2)} = 8$	1	3	1
$\sqrt[3]{(72A)} = 9$	9	27	729
$\sqrt[3]{(A43)} = 7$	3	9	27
$\sqrt[3]{(A7)} = 3$	2	6	8