

Name: _____

Grade: _____

Score: _____

Worksheet #3



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

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
$\sqrt[3]{(7A9)} = 9$			
$\sqrt[3]{(21A)} = 6$			
$\sqrt[3]{(12A)} = 5$			
$\sqrt[3]{(3A3)} = 7$			

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Worksheet #3(Answers)



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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
$\sqrt[3]{27} = 3$	$\sqrt[3]{64} = 4$	$3 + 4 = 7$	$3 - 4 = -1$
$\sqrt[3]{8} = 2$	$\sqrt[3]{343} = 7$	$2 + 7 = 9$	$2 - 7 = -5$
$\sqrt[3]{125} = 5$	$\sqrt[3]{512} = 8$	$5 + 8 = 13$	$5 - 8 = -3$
$\sqrt[3]{216} = 6$	$\sqrt[3]{729} = 9$	$6 + 9 = 15$	$6 - 9 = -3$
$\sqrt[3]{1} = 1$	$\sqrt[3]{27} = 3$	$1 + 3 = 4$	$1 - 3 = -2$
$\sqrt[3]{343} = 7$	$\sqrt[3]{125} = 5$	$7 + 5 = 12$	$7 - 5 = 2$

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
$\sqrt[3]{(7A9)} = 9$	2	6	8
$\sqrt[3]{(21A)} = 6$	6	18	216
$\sqrt[3]{(12A)} = 5$	5	15	125
$\sqrt[3]{(3A3)} = 7$	4	21	64