Circuit Training -	Simple	Logarithms
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Name

Directions: Beginning in cell #1, work the problem. Search for your answer and call that cell #2. Continue in this manner until you complete the circuit. No technology should be used to simplify these expressions and/or solve these equations.

Answer: 7	Answer: 1	Answer: 0
#1 log ₂ 8	# log ₂ 64 - log ₂ 2	#log ₈ ½
Answer: $\sqrt{3}$	Answer: r	Answer: 2
# log _e e ¹⁰	$\# \underline{\hspace{1cm}} r \log_a a^b$	# log ₃ 81
35	9)	£
(NOTE: If the base is e, then we call it "the natural log" and		
this problem can be also		33
written as ln e ¹⁰) Answer: 3	Answer: $-\frac{1}{3}$	Answer: 9
		u 107
# log ₅ 25	# log ₁₀ 0.001	$ \ \#_{} \ \log 10^7 $
	(NOTE: If the base is 10, then	
	we call it "the common log"	
	and this problem can be also written as log 0.001)	
Answer: -2	Answer: b	Answer: 6
# log ₁₀₀ 10	#9 ln e	# rlog _b b
10610010		00"

Δ		
Answer: rb	Answer: 8	Answer: 4
#7 ^{log} 7 ^b	$\# _{} \log_{6} 2 + \log_{6} 3$	$\# _{} \log_{6\frac{1}{6}}$
24		
	NOTE:	
	$\log_{b} a + \log_{b} c = \log_{b}(ac)$	
Answer: $\frac{1}{3}$	Answer: 5	Answer: -3
		II.
#log ₁₂ 1	# log√1000	$\# _{_{_{_{_{_{_{_{_{_{_{_{_{_{_{1}}}}}}}}}$
A 4		(A
Answer: $\frac{4}{3}$	Answer: -1	Answer: 10
# $3 \ln e^2$	$\# _ log_7 \frac{1}{49}$	# $\ln e + \ln \sqrt[3]{e}$
	108/49	" me + mye
	-	
	₩.	
	7:	
	V V	
Answer: $\sqrt[4]{3}$	Angraron, 3	1
	Answer: 3	Answer: 1/2
$\#$ $\log_2 x = 3$	$\# _{} \log_3 x = \frac{1}{2}$	# log ₆₄ 4
	2	
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