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Logarithm Worksheets

Questions

1. Write the exponential form $2^5 = 32$ into logarithmic form.
2. The logarithmic form $\text{Log}381 = 4$ can be written in exponential form as _____.
3. Express $\text{Log } 12$ as the sum of logs of prime number.
4. Write $2\log 5 + 3\log 2$ as a single logarithm.
(a) $\text{Log}100$ (b) $\text{Log}200$ (c) $\text{Log}250$ (d) $\text{Log } 300$
5. $\text{Log } 144 = x\log 2 + y\log 3$. Find the value of $x + y$.
6. $\text{Log}2/\log 16 =$ _____
(a) $1/2$ (b) $1/4$ (c) $1/8$ (d) $1/16$

$$\log_b(x) = \frac{\log_{10}(x)}{\log_{10}(b)}$$

7. The value of $\log_5 125 =$ _____.
8. Solve $\text{Log}27 - \text{Log}9$.
9. If $\log 2 = 0.3010$, find the value of $\log 8$.
(a) 0.9030 (b) 0.8974 (c) 0.7896 (d) 1.2367

10. Given $\log 3 = 0.4771$, and $\log 5 = 0.6989$. Find the value of $\log 15$.

- (a) 1.2894 (b) 1.1780 (c) 1.1760 (d) 1.1167



When you learn math
in an interesting way,
you never forget.



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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

(1)	$\text{Log}_2 32 = 5$
(2)	$3^4 = 81$
(3)	$2\log 2 + \log 3$
(4)	(b) $\log 200$
(5)	6
(6)	(b) $1/4$
(7)	3
(8)	$\log 3$
(9)	(a) 0.9030
(10)	(c) 11760