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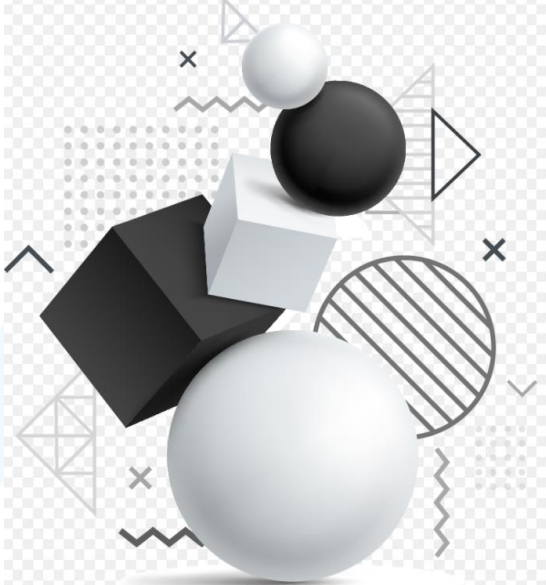


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Properties of Logarithms Worksheets

1. $\log_3 243 + \log_2 32 = x$. Find the value of x .
 2. Find the value of $2\log 5 + 3\log 2 - \log 10$
 3. Given $\text{Log } 12 = 1.079$, find the value of $\log 144$.
(a) 2.126 (b) 2.158 (c) 2.894 (d) 2.936
- 
4. The values of $\log 2 = 0.3010$, and $\log 5 = 0.6989$.
Find the value of $\log 200$.
(a) 4.906 (b) 2.308 (c) 2.409 (d) 2.896
 5. If $\log 3 = 0.4771$, find the value of $\log 900$.
 6. Write the exponential form $2^5 = 32$ into logarithmic form.
 7. The logarithmic form $\text{Log } 381 = 4$ can be written in exponential form as _____.
 8. Express $\text{Log } 12$ as the sum of logs of prime number.
 9. Write $2\log 5 + 3\log 2$ as a single logarithm.
(a) $\text{Log } 100$ (b) $\text{Log } 200$ (c) $\text{Log } 25$ (d) $\text{Log } 300$
 10. $\text{Log } 144 = x\log 2 + y\log 3$. Find the value of $x + y$.

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in an interesting way,
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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)	10
2)	$\log 20$
3)	(b) 2.158
4)	(b) 2.3008
5)	Ans: 2.9542
6)	$\text{Log}_2 32 = 5$

7)	$3^4 = 81$
8)	$2\log 2 + \log 3$
9)	(b) $\log 200$
10)	1.6

FUN FACT

1. Logarithms helps to transform the operations of multiplication to addition, and division to subtractions.
2. Working with logarithms we need to refer to logarithm tables called Napier Logarithms

