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Logarithm Worksheets

Questions

1. Find the value of $\log_6 4512$

- (a) $1/2$ (b) $3/4$ (c) $3/2$ (d) $3/5$

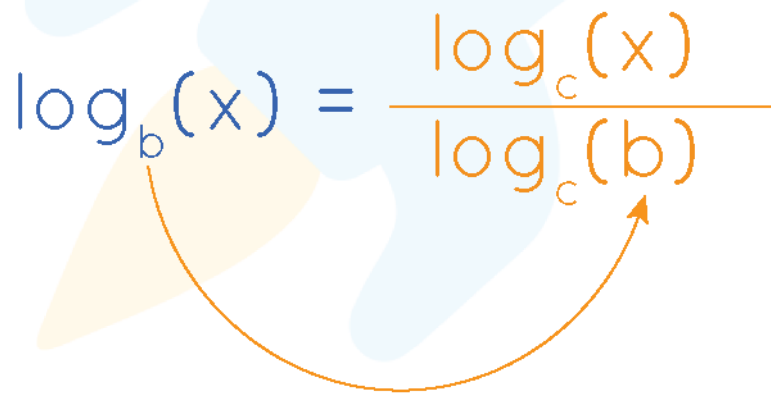
2. Find the value of $\log \sqrt{3} 27$

3. The value of $\log_{10} 0.00001 =$ _____

4. $\log_5 x = -2$. Find the value of x .

- (a) $1/15$ (b) $1/25$ (c) $1/10$ (d) $1/16$

5. The value of $\log(1/4) 64 =$ _____.



The diagram shows the change of base formula: $\log_b(x) = \frac{\log_c(x)}{\log_c(b)}$. A blue rocket graphic is in the background. An orange arrow points from the base 'b' in the denominator of the left side to the base 'c' in the denominator of the right side. Another orange arrow points from the argument 'x' in the numerator of the left side to the argument 'x' in the numerator of the right side.

$$\log_b(x) = \frac{\log_c(x)}{\log_c(b)}$$

6. $\log_6 36 + \log_6 216 = x$. Find the value of x .

7. Find the value of $\log_9 81 + \log_6 216 - \log_4 1/16$.

8. Given $\log 16 = 1.204$, find the value of $\log 1/256$.

- (a) 2.408 (b) 4.496 (c) -4.496 (d) -2.408

9. The values of $\log 2 = 0.3010$, and $\log 7 = 0.8451$. Find the value of $\log 56$.

- (a) 3.7381 (b) 1.7481 (c) 2.3081 (d) 1.7441

10. If $\log_{10} 2 = 0.3010$, find the value of $\log_{10} 800$.

- (a) 3.9030 (b) 3.6021 (c) 2.3896 (d) 2.3347



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- 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) | (c) $\frac{3}{2}$ |
| (2) | 6 |
| (3) | -5 |
| (4) | (b) $\frac{1}{25}$ |
| (5) | -3 |
| (6) | 5 |
| (7) | 7 |
| (8) | (d) -2.408 |
| (9) | (b) 1.7481 |
| (10) | (a) 3.9030 |