

Name : _____ Score : _____
Teacher : _____ Date : _____

The Meaning of Logarithms

Rewrite each in exponential form.

1) $\log_2 4 = 2$

2) $\log_{125} 5 = \frac{1}{3}$

3) $\log_3 \frac{1}{81} = -4$

4) $\log_2 \frac{7}{23} = -9$

5) $\log_s x = 3$

6) $\log_{15} q = y$

Rewrite each in logarithmic form.

7) $4^4 = 256$

8) $243^{\frac{1}{5}} = 3$

9) $6^{-2} = \frac{1}{36}$

10) $s^{-n} = \frac{5}{19}$

11) $x^3 = y$

12) $-10^p = d$

