

Practicing Basic Logarithms

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Use a calculator to approximate each to the nearest thousandth.

1) $\log 23$

2) $\log 3.2$

3) $\log 4.04$

4) $\log 4.8$

5) $\log 2.8$

6) $\log 22$

7) $\log 4.4$

8) $\log 1.2$

Rewrite each equation in exponential form.

9) $\log_{27} \frac{1}{3} = -\frac{1}{3}$

10) $\log_6 36 = 2$

11) $\log_{14} \frac{1}{196} = -2$

12) $\log_7 \frac{1}{343} = -3$

13) $\log_3 9 = 2$

14) $\log_{14} 196 = 2$

15) $\log_{324} \frac{1}{18} = -\frac{1}{2}$

16) $\log_{11} 121 = 2$

17) $\log_7 49 = 2$

18) $\log_{19} \frac{1}{361} = -2$

Rewrite each equation in logarithmic form.

19) $7^m = n$

20) $18^m = n$

21) $x^y = 116$

22) $x^y = \frac{41}{30}$

23) $y^x = 59$

24) $11^x = y$