

NAME _____

Rewrite and Evaluate Logarithms

Rewrite each equation in logarithmic form.

1. $3^5 = 243$

2. $81 = 243^{\frac{4}{5}}$

3. $6^2 = 36$

Rewrite each equation in exponential form.

4. $\log_2 8 = 3$

5. $\log_{243} 27 = \frac{3}{5}$

6. $5 = \log_4 1024$

Evaluate each expression. Round to two decimal places, following the rules of rounding.

7. $\log_5 125$

8. $\log_4 16$

9. $\log_{64} 2$

10. $\log 10$

11. $\log_{16} 1$

12. $\log 2$