

Logarithmic & Exponential Form

Numerals: S4

Express each equation in logarithmic form.

1) $4^{-3} = \frac{1}{64}$

2) $3^6 = 729$

3) $5^3 = 125$

4) $2^8 = 256$

5) $16^{\frac{1}{4}} = 2$

7) $4^2 = 16$

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Express each equation in logarithmic form.

9) $\log_3 \left(\frac{1}{81} \right) = -4$

11) $\log_{27} 3 = \frac{1}{3}$

13) $\log_2 8 = 3$

14) $\log_{64} 8 = \frac{1}{2}$

15) $\log_5 625 = 4$

16) $\log_7 \left(\frac{1}{343} \right) = -3$

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Numerals: S4

Express each equation in logarithmic form.

1) $4^{-3} = \frac{1}{64}$

$\log_4 \left(\frac{1}{64} \right) = -3$

2) $3^6 = 729$

$\log_3 729 = 6$

3) $5^3 = 125$

$\log_5 125 = 3$

4) $2^8 = 256$

$\log_2 256 = 8$

5) $16^{\frac{1}{4}} = 2$

$\log_{16} 2 = \frac{1}{4}$

7) $4^2 = 16$

$\log_4 16 = 2$

Express each equation in exponential form.

9) $\log_3 \left(\frac{1}{81} \right) = -4$

$3^{-4} = \frac{1}{81}$

11) $\log_{27} 3 = \frac{1}{3}$

$27^{\frac{1}{3}} = 3$

13) $\log_2 8 = 3$

$2^3 = 8$

14) $\log_{64} 8 = \frac{1}{2}$

$64^{\frac{1}{2}} = 8$

15) $\log_5 625 = 4$

$5^4 = 625$

16) $\log_7 \left(\frac{1}{343} \right) = -3$

$7^{-3} = \frac{1}{343}$

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