

Logarithmic & Exponential Worksheets

Evaluate each expression.

$$\log_2 (8\sqrt{2})$$

$$\log_3 \frac{1}{\sqrt{3}}$$

$$\log_2 \left(\frac{1}{\sqrt{8}} \right)$$

$$\log_7 \left(\frac{\sqrt{7}}{7} \right)$$

$$\log_5 (25\sqrt{5})$$

$$\log_5 \sqrt[3]{5}$$

$$\log_{64} 8$$

$$\log_2 0.25$$

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Evaluate each expression.

$$\begin{aligned}\log_2 (8\sqrt{2}) \\ = 3.5\end{aligned}$$

$$\begin{aligned}\log_3 \frac{1}{\sqrt{3}} \\ = -0.5\end{aligned}$$

$$\begin{aligned}\log_2 \left(\frac{1}{\sqrt{8}} \right) \\ = -1.5\end{aligned}$$

$$\begin{aligned}\log_7 \left(\frac{\sqrt{7}}{7} \right) \\ = -0.5\end{aligned}$$

$$\begin{aligned}\log_5 (25\sqrt{5}) \\ = 2.5\end{aligned}$$

$$\begin{aligned}\log_5 \sqrt[3]{5} \\ = \frac{1}{3}\end{aligned}$$

$$\begin{aligned}\log_{64} 8 \\ = 0.5\end{aligned}$$

$$\begin{aligned}\log_2 0.25 \\ = -2\end{aligned}$$