Name _____   Date _____

Converting Between Logarithmic and Exponential Functions - Guided Lesson Explanation

Explanation#1

Remember that the logarithm is the exponent:

$x = b^y$ is $\log_b x = y$

So logarithmic form of given exponential form is $\log_5 25 = 2$

So, the answer is $\log_5 25 = 2$.

Explanation#2

As the logarithm is the exponent: $\log_b x = y$ is $x = b^y$

So exponential form of given logarithmic form is $4^3 = 64$

So, the answer is $4^3 = 64$.

Explanation#3

Remember that the logarithm is the exponent:

$x = b^y$ is $\log_b x = y$

So logarithmic form of given exponential form is $\log_3 9 = 2$

So, the answer is $\log_3 9 = 2$