

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Logarithmic Form**

Write the following exponents in logarithmic form:

Exponent Form	Logarithmic Form
$2^5 = 32$	
$3^3 = 27$	
$5^3 = 125$	
$2^{-4} = \frac{1}{16}$	
$4^3 = 64$	
$3^2 = 9$	
$7^{-2} = \frac{1}{49}$	

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

### Answers

Exponent Form	Logarithmic Form
$2^5 = 32$	$\log_2 32 = 5$
$3^3 = 27$	$\log_3 27 = 3$
$5^3 = 125$	$\log_5 125 = 3$
$2^{-4} = \frac{1}{16}$	$\log_2 \left(\frac{1}{16}\right) = -4$
$4^3 = 64$	$\log_4 64 = 3$
$3^2 = 9$	$\log_3 9 = 2$
$7^{-2} = \frac{1}{49}$	$\log_7 \left(\frac{1}{49}\right) = -2$