

Name _____

Date _____

Year Group _____

Grab the numbers to move them to create equivalent logarithm

1. $3 * 3 * 3 * 3 = 3^4 = 81 \Rightarrow \log_{\underline{\hspace{1cm}}} \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

Grab the numbers to move them to create equivalent logarithm

2. $\log_2 8 = 3 \Rightarrow \underline{\hspace{1cm}} * \underline{\hspace{1cm}} * \underline{\hspace{1cm}} = \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

Fill out the logarithmic equations to make them true

3. $\log_5 25 = \underline{\hspace{1cm}}$

4. $\log_3 \underline{\hspace{1cm}} = 2$

5. $\log_5 1 = \underline{\hspace{1cm}}$

Drag the numbers to the correct spot to create a logarithmic equation and fill out the exponential equation

6. 4 2 16

$\log_{\underline{\hspace{1cm}}} \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \qquad \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

7. 8 0 1

$\log_{\underline{\hspace{1cm}}} \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \qquad \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

8. 9 1 9

$\log_{\underline{\hspace{1cm}}} \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \qquad \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$