Name ______ Period _____

Approximating Logarithmic Expressions

$$log_6 8$$

There is no way to calculate $log_6 8$ on calculators

The LOG button on calculators is for calculating common logs with a base 10.

We can use the Change-of-Base Formula to convert $log_6 8$ to an expression of common logs

Change-of-Base Formula

$$\log_b x = \frac{\log x}{\log b}$$











ENTER

Change-of-Base Formula

$$log_68 =$$

Evaluate the following logarithmic expressions using the Change of Base Formula.

$$\log_b x = \frac{\log x}{\log b}$$

$$log_5 2$$

$$log_3 7$$

Evaluate the following logarithmic expressions using the Change of Base Formula.

$$\log_b x = \frac{\log x}{\log b}$$

$$\log_6 24$$

Change-of-Base Formula

$$\log_b x = \frac{\log x}{\log b}$$











ENTER