COMMON LOGARITHM	A logarithm with base 10 is called a <b>common</b> logarithm and can be written without the base. $\log_{10} x \longrightarrow$	
EVALUATING LOGARITHMS	Directions: Use your knowledge of exponents to evaluate the following logarithms.  13. log <sub>7</sub> 49  14. log <sub>3</sub> 27	
	<b>15.</b> log 100	<b>16.</b> log <sub>12</sub> 1
	<b>17.</b> log <sub>2</sub> 64	<b>18.</b> log <sub>3</sub> 243
	<b>19.</b> log <sub>9</sub> $\frac{1}{81}$	<b>20.</b> log <sub>64</sub> 4
CHANGE OF BASE FORMULA	Some logarithms are not as easy to evaluate as those above, and will require the <b>change of base formula</b> . $\log_b a =$	
Choose BASE IO because there is a calculator button for it!	<b>Directions:</b> Evaluate each log using the <b>21.</b> log <sub>16</sub> 64	e change of base formula.  22. log <sub>8</sub> 32
	<b>23.</b> log <sub>2</sub> 54	<b>24.</b> log <sub>10</sub> 294
	<b>25.</b> log <sub>4</sub> 136	<b>26.</b> $\log_6 \frac{1}{36}$