Student Name: _____ **Score:**

Rewrite as Single Logarithm Using Product and Quotient Rule

Problems	Work Space
$\log_a x + \log_a y - \log_a z$ Answer:	
$\log_s l^4 m^2 + \log_s n - \log_s lmn$ Answer:	
$\log_h \frac{x}{y} + \log_h \frac{y}{z} - \log_h \frac{z}{y}$ Answer:	
$\log_d ab + \log_d bc - \log_d ca$ Answer:	
$\log_s (m+n) + \log_s (l+m) - \log_s m$ Answer:	