

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: