

Student Name: _____

Score: _____

Rewrite as Single Logarithm Using Product Rule

Problems

Work Space

$\log_x m + \log_x n$ Answer:	
$\log_y x^2 + \log_y z^3$ Answer:	
$\log_a \frac{x}{y} + \log_a z$ Answer:	
$\log_n ab^2 + \log_n \frac{c}{ab}$ Answer:	
$\log_b \frac{s}{t^2} + \log_b st^3$ Answer:	

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Answers

$\log_x m + \log_x n$	
Answer: $\log_x mn$	
$\log_y x^2 + \log_y z^3$	
Answer: $\log_y x^2 z^3$	
$\log_a \frac{x}{y} + \log_a z$	
Answer: $\log_a \frac{xz}{y}$	
$\log_n ab^2 + \log_n \frac{c}{ab}$	
Answer: $\log_n bc$	
$\log_b \frac{s}{t^2} + \log_b st^3$	
Answer: $\log_b s^2 t$	