

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Rewrite as Single Logarithm Using Product Rule**

Problems

Work Space

$\log_3 4 + \log_3 8$  Answer:	
$\log_2 7 + \log_2 11$  Answer:	
$\log_4 2 + \log_4 5 + \log_4 8$  Answer:	
$\log_5 6 + \log_5 3 + \log_5 2$  Answer:	
$\log_2 3 + \log_2 4 + \log_2 5 + \log_2 6$  Answer:	

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### Answers

$\log_3 4 + \log_3 8$  Answer: $\log_3 32$	
$\log_2 7 + \log_2 11$  Answer: $\log_2 77$	
$\log_4 2 + \log_4 5 + \log_4 8$  Answer: $\log_4 80$	
$\log_5 6 + \log_5 3 + \log_5 2$  Answer: $\log_5 36$	
$\log_2 3 + \log_2 4 + \log_2 5 + \log_2 6$  Answer: $\log_2 360$	