

<u>Help</u>

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**⊞** Calculator

## LE8.1.1 Asymptotic Latency and Throughput

Asymptotic latency of N-input AND:	
log(N)	
You entered:	
$\log{(N)}$	
Submit	
LE8.1.2 Asymptotic Latency and Throughput	
1/1 point (ungraded) Is $\Theta\left(log_2N ight)$ the same as $\Theta\left(log_{10}N ight)$	
Yes	
○ No	
<u> </u>	
Only for some N	
<b>✓</b>	
Submit	
LE8.1.3 Asymptotic Latency and Throughput	
2/2 points (ungraded)	
A combinational multiplier is pipelined for maximum throughput. If t is the appropriate "order of" notation for its throughput and latency	
Throughput $oldsymbol{\Theta}\left(\ldots ight)$ : 1	<b></b>
1	
1	
1	<b>→</b>
1	<b>✓</b>
Latency $oldsymbol{\Theta}$ ( $\ldots$ ): N $oldsymbol{N}$	<b>✓</b>
1 Latency Θ (): N	
Latency $oldsymbol{\Theta}$ ( ): N $oldsymbol{N}$	
Latency $oldsymbol{\Theta}$ ( $\ldots$ ): N $oldsymbol{N}$	

Accounting for the fan in limitations

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