

## Unit Conversion using Engineering Prefixes

List the most common engineering prefixes and abbreviations.

Describe two different methods of entering the following values into the TI89.

2.5MW  
15nF

Use this overlay to convert these numbers to the desired prefix.

2.5MW -> kW -> GW-> mW-> nW  
15nF ->  $\mu$ F -> pF

Convert these numbers to the desired prefix.

312 $\mu$ A -> mA  
22mH ->  $\mu$ H  
22mH -> nH  
5ms -> s  
680 $\Omega$  -> k $\Omega$   
20M $\Omega$  -> k $\Omega$   
3.3nF -> pF  
9.4kW -> MW

Describe how the TI89 using exponential format: engineering can be used to check your work.

Convert these numbers to the desired prefix.

20kHz -> MHz  
10 $\mu$ s -> ms  
2m -> mm  
2m -> km  
20.4k $\Omega$  ->  $\Omega$   
1.7MW -> kW  
3.4mA -> nA  
5GWh -> kWh