



## 2 Tutorial (Signals)

### Capacity

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Complete the following table (where the first entry has already been completed). You can calculate the S/N ratio in dBs by taking the logarithm of the value to the base 10:

Bandwidth	S/N	Maximum bitrate	S/N (dB)
3 kHz	30	14,863 bits/sec	14.77 dB
100 kHz	100		
10 kHz	1000		
4 kHz	10		

Check your answers using:

<http://www.asecuritysite.com/calculators/sn>

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