

| dB value | times by |
|----------|----------|
| +30 dB   | 1000     |
| +20 dB   | 100      |
| +16 dB   | 40       |
| +13 dB   | 20       |
| +10 dB   | 10       |
| +9 dB    | 8        |
| 8 dB     | 6.31     |
| +7 dB    | 5.01     |
| +6 dB    | 4        |
| +5 dB    | 3.16     |
| +4 dB    | 2.51     |
| +3 dB    | 2        |
| +2 dB    | 1.58     |
| +1 dB    | 1.26     |
| 0 dB     | 1        |
| -3 dB    | 0.5      |
| -10 dB   | 0.1      |
| -20 dB   | 0.01     |
| -30 dB   | 0.001    |
| -40 dB   | 0.0001   |

Gain example:

10 Watts RF output exciter connected to a 20dB gain amplifier:  $10 \times 100 = 1000$  Watts.

Loss example:

3dB losses in a coaxial cable runing to the antenna from a 100 Watts RF output transceiver :  
 $100 \times 0.5 = 50$  Watts