

DBs Without a Calculator *ddf 02/08/2021*

<u>DBs</u>	<u>Factor</u>		<u>DBs</u>	<u>Factor</u>		<u>DBs</u>	<u>Factor</u>
0DB	1		10DB	10		20DB	100
1DB			11DB			21DB	125 (vs 128)
2DB			12DB	16		22DB	
3DB	2		13DB			23DB	
4DB			14DB			24DB	250
5DB			15DB	32		25DB	
6DB	4		16DB			26DB	
7DB			17DB			27DB	500
8DB			18DB	64		28DB	
9DB	8		19DB			29DB	

DBs **Factor** { **99 % Accurate** }

0DB	1
1DB	1.25
2DB	1.6
3DB	2
4DB	2.5
5DB	3.2
6DB	4
7DB	5.0
8DB	6.4
9DB	8
10DB	10

Procedure:

13DB Gain >> **13** >> **Gain Factor = 20** times
 (slice off the Basic Db of 3 from the Multiplier)
 (3DB >> Gain Factor = 2)
 (apply the Multiplier of 10¹ for a Gain Factor of 10 x 2 = **20**)

With a calculator, simply do: **10^{1.3}**
 { hidden decimal point between the multiplier & basic Db }

Example: **38DB** >> **6.4 x 10³ = 6,400**