

DBs Without a Calculator ddf 02/10/2021
(or Slide-Rules)

DBs	Factor		DBs	Factor		DBs	Factor
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	

Note the "Multipliers" here

{ 99 % Accurate }

DBs	Factor	Procedure:
0DB	1	
1DB	1.25	
2DB	1.6	
3DB	2	13DB Gain >> 13 >> Gain Factor = 20 times
4DB	2.5	(slice off the Basic Db of 3 from the Multiplier)
5DB	3.2	(3DB >> Gain Factor = 2)
6DB	4	(apply the Multiplier of 10 ¹ for a Gain Factor of 10 x 2 = 20)
7DB	5	
8DB	6.4	
9DB	8	
10DB	10	

With a calculator, simply do: $10^{1.3} = x20$
{ hidden decimal point between the multiplier & basic Db }

Example #1: 38DB <<< $6.4 \times 10^3 = 6,400$ (Multiplier is 1,000)

Example #2: 27DB <<< $5.0 \times 10^2 = 500$ (Multiplier is 100)