

CALCULO DE LA FRECUENCIA DE LAS NOTAS MUSICALES

La frecuencia de la nota viene dada por la expresión :

$$f(n, o) = 440 \cdot \left(\sqrt[12]{2}\right)^{(o-3) \cdot 12 + (n-10)}$$

donde nota=n y octava=o

	NOTAS MUSICALES	Octava	Nota	Frecuencia	Periodo/2	timeHeigh
Octava 1	Do	1	1	65,40639133	7644,512866	7645
	Do#	1	2	69,29565774	7215,459327	7215
	Re	1	3	73,41619198	6810,486713	6810
	Re#	1	4	77,78174593	6428,243465	6428
	Mi	1	5	82,40688923	6067,453883	6067
	Fa	1	6	87,30705786	5726,913863	5727
	Fa#	1	7	92,49860568	5405,486886	5405
	Sol	1	8	97,998859	5102,10022	5102
	Sol#	1	9	103,8261744	4815,741338	4816
	La	1	10	110	4545,454545	4545
	La#	1	11	116,5409404	4290,337785	4290
	Si	1	12	123,4708253	4049,539628	4050
	Do	1	13	130,8127827	3822,256433	3822
Octava 2	Do	2	1	130,8127827	3822,256433	3822
	Do#	2	2	138,5913155	3607,729664	3608
	Re	2	3	146,832384	3405,243357	3405
	Re#	2	4	155,5634919	3214,121733	3214
	Mi	2	5	164,8137785	3033,726941	3034
	Fa	2	6	174,6141157	2863,456932	2863
	Fa#	2	7	184,9972114	2702,743443	2703
	Sol	2	8	195,997718	2551,05011	2551
	Sol#	2	9	207,6523488	2407,870669	2408
	La	2	10	220	2272,727273	2273
	La#	2	11	233,0818808	2145,168892	2145
	Si	2	12	246,9416506	2024,769814	2025
	Do	2	13	261,6255653	1911,128216	1911
Octava 3	Do	3	1	261,6255653	1911,128216	1911
	Do#	3	2	277,182631	1803,864832	1804
	Re	3	3	293,6647679	1702,621678	1703
	Re#	3	4	311,1269837	1607,060866	1607
	Mi	3	5	329,6275569	1516,863471	1517
	Fa	3	6	349,2282314	1431,728466	1432
	Fa#	3	7	369,9944227	1351,371722	1351
	Sol	3	8	391,995436	1275,525055	1276
	Sol#	3	9	415,3046976	1203,935334	1204
	La	3	10	440	1136,363636	1136
	La#	3	11	466,1637615	1072,584446	1073
	Si	3	12	493,8833013	1012,384907	1012

Octava 4

Do	3	13 523,2511306	955,5641082	956
Do	4	1 523,2511306	955,5641082	956
Do#	4	2 554,365262	901,9324159	902
Re	4	3 587,3295358	851,3108391	851
Re#	4	4 622,2539674	803,5304332	804
Mi	4	5 659,2551138	758,4317353	758
Fa	4	6 698,4564629	715,8642329	716
Fa#	4	7 739,9888454	675,6858608	676
Sol	4	8 783,990872	637,7625274	638
Sol#	4	9 830,6093952	601,9676672	602
La	4	10 880	568,1818182	568
La#	4	11 932,327523	536,2922231	536
Si	4	12 987,7666025	506,1924535	506
Do	4	13 1046,502261	477,7820541	478

Octava 5

Do	5	1 1046,502261	477,7820541	478
Do#	5	2 1108,730524	450,9662079	451
Re	5	3 1174,659072	425,6554196	426
Re#	5	4 1244,507935	401,7652166	402
Mi	5	5 1318,510228	379,2158677	379
Fa	5	6 1396,912926	357,9321164	358
Fa#	5	7 1479,977691	337,8429304	338
Sol	5	8 1567,981744	318,8812637	319
Sol#	5	9 1661,21879	300,9838336	301
La	5	10 1760	284,0909091	284
La#	5	11 1864,655046	268,1461116	268
Si	5	12 1975,533205	253,0962267	253
Do	5	13 2093,004522	238,8910271	239

Octava 6

Do	6	1 2093,004522	238,8910271	239
Do#	6	2 2217,461048	225,483104	225
Re	6	3 2349,318143	212,8277098	213
Re#	6	4 2489,01587	200,8826083	201
Mi	6	5 2637,020455	189,6079338	190
Fa	6	6 2793,825851	178,9660582	179
Fa#	6	7 2959,955382	168,9214652	169
Sol	6	8 3135,963488	159,4406319	159
Sol#	6	9 3322,437581	150,4919168	150
La	6	10 3520	142,0454545	142
La#	6	11 3729,310092	134,0730558	134
Si	6	12 3951,06641	126,5481134	127
Do	6	13 4186,009045	119,4455135	119

Octava 7

Do	7	1 4186,009045	119,4455135	119
Do#	7	2 4434,922096	112,741552	113
Re	7	3 4698,636287	106,4138549	106
Re#	7	4 4978,03174	100,4413041	100
Mi	7	5 5274,040911	94,80396692	95
Fa	7	6 5587,651703	89,48302911	89
Fa#	7	7 5919,910763	84,4607326	84
Sol	7	8 6271,926976	79,72031593	80
Sol#	7	9 6644,875161	75,24595841	75
La	7	10 7040	71,02272727	71

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La#	7	11 7458,620184	67,03652789	67
Si	7	12 7902,13282	63,27405669	63
Do	7	13 8372,01809	59,72275677	60

Octava 8

Do	8	1 8372,01809	59,72275677	60
Do#	8	2 8869,844191	56,37077599	56
Re	8	3 9397,272573	53,20692745	53
Re#	8	4 9956,063479	50,22065207	50
Mi	8	5 10548,08182	47,40198346	47
Fa	8	6 11175,30341	44,74151456	45
Fa#	8	7 11839,82153	42,2303663	42
Sol	8	8 12543,85395	39,86015797	40
Sol#	8	9 13289,75032	37,6229792	38
La	8	10 14080	35,51136364	36
La#	8	11 14917,24037	33,51826394	34
Si	8	12 15804,26564	31,63702834	32
Do	8	13 16744,03618	29,86137838	30
