

11.11.2014 **English Note Names**

Handling: 10.06.2013 11.11.2014 (Norbert) Suedland

In European music in major is more common than in minor.

Therefore the note names and frequency ratios correspond to major.

5-division	7-division	12-division 2 ^{^(n/12)}	22-division 2 ^{^(n/22)}	41-division 2 ^{^(n/41)}
1:1 C	1:1 C	1:1 Bis = C	1:1 Bis = C	1:1 Bis = C
				≈ 48:47 Cil
			≈ 26:25 Cin	≈ 28:27 Cin
				≈ 20:19 Cip = Des
		≈ 16:15 Cis = Des	≈ 16:15 Cis = Des	≈ 15:14 Cis = Dep
				≈ 12:11 Den
10:9 Del (minor)	10:9 Del (minor)		≈ 11:10 Den	≈ 10:9 Del
9:8 D	9:8 D	≈ 9:8 D		≈ 9:8 D
			≈ 8:7 D	≈ 8:7 Dil
			≈ 7:6 Din = Es	≈ 7:6 Din = Es
				≈ 13:11 Dip = Ep
		≈ 6:5 Dis = Es	≈ 6:5 Dis = En	≈ 6:5 Dis = En
				≈ 11:9 El
5:4 E	5:4 E	≈ 5:4 E = Fes	≈ 5:4 E = Fes	≈ 5:4 E = Fes
				≈ 19:15 Eil = Fep
			≈ 9:7 Ein = Fen	≈ 9:7 Ein = Fen
				≈ 17:13 Eip = Fel
	4:3 F	≈ 4:3 Eis = F	≈ 4:3 Eis = F	≈ 4:3 Eis = F
				≈ 19:14 Fil
			≈ 11:8 Fin	≈ 11:8 Fin
		≈ 7:5 Fis = Ges	≈ 17:12 Fis = Ges	≈ 7:5 Fip = Ges
				≈ 10:7 Fis = Gep
			≈ 16:11 Gen	≈ 16:11 Gen
				≈ 28:19 Gel
3:2 G	3:2 G	≈ 3:2 G	≈ 3:2 G	≈ 3:2 G
				≈ 26:17 Gil
			≈ 14:9 As	≈ 14:9 Gin = As
				≈ 30:19 Gip = Ap
		≈ 8:5 Gis = As	≈ 8:5 Gis = An	≈ 8:5 Gis = An
				≈ 18:11 Al
5:3 A	5:3 A	≈ 5:3 A	≈ 5:3 A	≈ 5:3 A
				≈ 22:13 Ail
			≈ 12:7 Ain	≈ 12:7 Ain
			≈ 7:4 Ais = Bes	≈ 7:4 Aip = Bes
		≈ 16:9 Ais = Bes		≈ 16:9 Ais = Bep
			≈ 20:11 Ben	≈ 9:5 Ben
				≈ 11:6 Bel
	15:8 B	≈ 15:8 B = Ces	≈ 15:8 B = Ces	≈ 28:15 B = Ces
				≈ 19:10 Bil = Cep
			≈ 25:13 Bin = Cen	≈ 27:14 Bin = Cen
				≈ 47:24 Bip = Cel
2:1 C	2:1 C	2:1 Bis = C	2:1 Bis = C	2:1 Bis = C
pure	pure	tempered	tempered	tempered

Only the 5-division and the 7-division can be done in pure frequency ratios.

Both of these divisions result from the tone stock of the corresponding base finalisation.

The interval 10:9 is already discussed in literature ([1989Bil], page 15).

In the pure 7-division parallel sounds can be forbidden (wolf's quint, e.g. D-A).

The wolf's quint ([1989Bil], page 16) is called so, because it "howls cruelly like a wolf".

References:

[1989Bil] (Bernhard) Billeter: *Anweisung zum Stimmen von Tasteninstrumenten*, Merseburger, 3rd, improved edition, (1989)

[2013Sued] (Norbert) Suedland: *Wie viele Töne hat die Tonleiter?*, essay, (2013)
<http://www.Norbert-Suedland.info/Deutsch/Musik/Tonleiter.pdf>