

# Chart of Transposition Ratios

Transposition Ratios Down/Up for 24 Semitones

Semitones Down	Transposition Ratio	Semitones Up	Transposition Ratio	Name of Interval
-1	0.94387431	1	1.05946309	Semitone [ (-)m2 ]
-2	0.89089872	2	1.12246205	Whole Tone [ (-)2 ]
-3	0.84089642	3	1.18920712	Minor Third [ (-)m3 ]
-4	0.79380053	4	1.25992105	Major Third [ (-)3 ]
-5	0.74915354	5	1.33483985	Perfect Fourth [ (-)4 ]
-6	0.70710678	6	1.41421356	Tritone [ (-)♯4 ]
-7	0.66741993	7	1.49830708	Perfect Fifth [ 5 ]
-8	0.629996052	8	1.58740105	Minor Sixth [ (-)m6 ]
-9	0.59460356	9	1.68179283	Major Sixth [ (-)6 ]
-10	0.56123102	10	1.78179744	Minor Seventh [ (-)m7 ]
-11	0.52973155	11	1.88774863	Major Seventh [ (-)7 ]
-12	0.50000000	12	2.0	Octave [ (-)8 ]
-13	0.47193716	13	2.11892619	Minor Ninth [ (-)m9 ]
-14	0.44544936	14	2.24492410	Ninth [ (-)9 ]
-15	0.42044821	15	2.37841423	Minor Tenth [ (-)m10 ]
-16	0.39685026	16	2.51984210	Tenth [ (-)10 ]
-17	0.37457677	17	2.66968971	Eleventh [ (-)11 ]
-18	0.35355339	18	2.82842712	Octave + Tritone [ (-)♯11 ]
-19	0.33370996	19	2.99661415 (3.0)	Twelfth [ (-)12 ]
-20	0.31498026	20	3.17480210	Minor Thirteenth [ (-)m13 ]
-21	0.29730178	21	3.36358566	Thirteenth [ (-)13 ]
-22	0.28061551	22	3.56359487	Minor Fourteenth [ (-)m14 ]
-23	0.26486577	23	3.77549725	Fourteenth [ (-)14 ]
-24	0.25	24	4.0	Fifteenth (2 Octaves) [ (-)15 ]



Archer Endrich  
Last Updated: 2 January 2007  
Layout revised: 31 July 2015