

Interval	Example	Interval Ratio	Result	Cents	Difference from Pythagorean Cents
diesis	C# ₋₁ - Db ₊₁	2048 2025	1.011	19.55	3.91
syntonic comma	C ₀ - C ₊₁	81 80	1.013	21.51	1.95
minimal semitone	C ₊₁ - C# ₋₁	25 24	1.042	70.67	19.55
minor semitone	C ₀ - C# ₋₁	135 128	1.055	92.18	1.95
major semitone	C ₀ - Db ₊₁	16 15	1.067	111.73	1.95
maximum semitone	C ₋₁ - Db ₊₁	27 25	1.080	133.24	19.55
minor tone	C ₀ - D ₋₁	10 9	1.111	182.40	21.51
major tone	C ₀ - D ₀	9 8	1.125	203.91	0.00
minor 3rd	C ₀ - Eb ₊₁	6 5	1.200	315.64	21.51
major 3rd	C ₀ - E ₋₁	5 4	1.250	386.31	21.51
perfect 4th	C ₀ - F ₀	4 3	1.333	498.04	0.00
augmented 4th	C ₀ - F# ₋₁	45 32	1.406	590.22	21.51
diminished 5th	C ₀ - Gb ₊₁	64 45	1.422	609.78	1.95
perfect 5th	C ₀ - G ₀	3 2	1.500	701.96	0.00
minor 6th	C ₀ - Ab ₊₁	8 5	1.600	813.69	21.51
major 6th	C ₀ - A ₋₁	5 3	1.667	884.36	21.51
minor 7th (lesser)	C ₀ - Bb ₀	16 9	1.778	996.09	0.00
minor 7th (greater)	C ₀ - Bb ₊₁	9 5	1.800	1017.60	21.51
major 7th	C ₀ - B ₋₁	15 8	1.875	1088.27	21.51
8ve	C ₀ - C ₀	2 1	2.000	1200.00	0.00

Select Pythagorean Ratios

Pythagorean comma	C ₀ - B# ₀	531441 524288	1.014	23.46
minor semitone	C ₀ - Db ₀	256 243	1.053	90.22
major semitone	C ₀ - C# ₀	2187 2048	1.068	113.69
tone	C ₀ - D ₀	9 8	1.125	203.91
minor 3rd	C ₀ - Eb ₀	32 27	1.185	294.13
schismatic major 3rd	C ₀ - Fb ₀	8192 6561	1.249	384.36
major 3rd (ditone)	C ₀ - E ₀	81 64	1.266	407.82
tritone	C ₀ - F# ₀	729 512	1.424	611.73
minor 6th	C ₀ - Ab ₀	128 81	1.580	792.18
major 6th	C ₀ - A ₀	27 16	1.688	905.87
minor 7th	C ₀ - Bb ₀	16 9	1.778	996.09
major 7th	C ₀ - B ₀	243 128	1.898	1109.78

Other Ratios

minor semitone	C - C#	18 17	1.059	98.95
major semitone	C - Db	17 16	1.063	104.96
augmented 4th	C - F#	10 7	1.429	617.49