

Powers-of-2

LEVEL	FREQUENCY	SECONDS	MINUTES	UNIT	REMARKS	REALM
-12	4096	0.0002		C8	highest note on piano	SOUND
-11	2048	0.0005		C7		
-10	1024	0.0010		C6	harmonics	
-9	512	0.0020		C5		
-8	256	0.0039		C4	middle C (approx.)	
-7	128	0.0078		C3		
-6	64	0.0156		C2	overtones	
-5	32	0.0313		C1	lowest note on piano	MELODY
-4	16	0.0625		32nd note	articulation	
-3	8	0.125		sixteenth note	ornamentation	
-2	4	0.25		eighth note	rhythm (swing, bossa...)	
-1	2	0.5		quarter note	1 beat @ MM 120	
0	1	1		half note		"CHANGES"
1	0.5	2		bar	chord	
2	0.25	4		2-bars	short phrase	
3	0.125	8	0.13	4-bars	long phrase	
4	0.0625	16	0.3	A or B	section	
5	0.0313	32	0.5	AA or BA	1/2 song	
6	0.0156	64	1.1	AABA form cycle	song	
7	0.0078	128	2.1	2 cycles	head	
8	0.0039	256	4.3	4 cycles	solo	
9	0.0020	512	8.5	8 cycles: 2 head, 6 solos	song performance	
10	0.0010	1024	17.1			
11	0.0005	2048	34.1			
12	0.0002	4096	68.3	set	8 songs in an hour	