

The Matrix of Ratios: Timing ratios in Music

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|---------------------------|-----------------------|------|
| One note per 1 beat | Quarter notes | 1:1 |
| Two notes per 1 beat | Eighth notes | 2:1 |
| Three notes per 1 beat | 8th note Triplets | 3:1 |
| Four notes per 1 beat | 16th notes | 4:1 |
| Five notes per 1 beat | quintuplets | 5:1 |
| Six notes per 1 beat | 16th note triplets | 6:1 |
| Seven notes 1 per beat | septuplets | 7:1 |
| Eight notes 1 per beat | 32nd notes | 8:1 |
| Nine notes 1 per beat | | 9:1 |
| Ten notes per 1 beat | | 10:1 |
| | | |
| One note every 2 beats | Half notes | 1:2 |
| Two notes every 2 beats | Quarter notes | 2:2 |
| Three notes every 2 beats | Quarter Note Triplets | 3:2 |
| Four notes every 2 beats | 8th notes | 4:2 |
| Five notes every 2 beats | half note quintuplets | 5:2 |
| Six notes every 2 beats | 8th note triplets | 6:2 |
| Seven notes every 2 beats | | 7:2 |
| Eight notes every 2 beats | 16th notes | 8:2 |
| Nine notes every 2 beats | | 9:2 |
| Ten notes every 2 beats | | 10:2 |
| | | |
| One note every 3 beats | Dotted Half | 1:3 |
| Two notes every 3 beats | Dotted Quarters | 2:3 |
| Three notes every 3 beats | Quarter Notes | 3:3 |
| Four notes every 3 beats | Dotted 8ths Notes | 4:3 |
| Five notes every 3 beats | | 5:3 |
| Six notes every 3 beats | 8th notes | 6:3 |
| Seven notes every 3 beats | | 7:3 |
| Eight notes every 3 beats | 16th notes | 8:3 |
| Nine notes every 3 beats | 8th note triplets | 9:3 |
| Ten notes every 3 beats | | 10:3 |
| | | |
| One note every 4 beats | Whole notes | 1:4 |
| Two notes every 4 beats | Half notes | 2:4 |
| Three notes every 4 beats | Half Note Triplets | 3:4 |
| Four notes every 4 beats | Quarter notes | 4:4 |
| Five notes every 4 beats | | 5:4 |
| Six notes every 4 beats | Quarter note triplets | 6:4 |
| Seven notes every 4 beats | | 7:4 |
| Eight notes every 4 beats | 8th notes | 8:4 |
| Nine notes every 4 beats | | 9:4 |
| Ten notes every 4 beats | | 10:4 |