**Table 2 — Interval comparisons in different mathematical tuning systems**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Pythagorean** | **Equally Tempered** | **Just** |
|  | **Origin** | **Ratio** | **Cents** | **Ratio** | **Cents** | **Origin** | **Ratio** | **Cents** |
| Unison | 1:1 | 1.000 | 0.00 | 1.000 | 0 | 1:1 | 1.000 | 0.00 |
| Minor second | 28:35 | 1.054 | 90.22 | 1.059 | 100 | 16:15 | 1.067 | 111.73 |
| Lesser major second | 32:23 | 1.125 | 203.91 | 1.122 | 200 | 10:9 | 1.111 | 182.40 |
| Greater major second |  |  |  |  |  | 9:8 | 1.125 | 203.91 |
| Minor third | 25:33 | 1.185 | 294.13 | 1.189 | 300 | 6:5 | 1.200 | 315.64 |
| Major third | 34:26 | 1.266 | 407.82 | 1.260 | 400 | 5:4 | 1.250 | 386.31 |
| Perfect fourth | 22:3 | 1.333 | 498.04 | 1.335 | 500 | 4:3 | 1.333 | 498.04 |
| Augmented fourth | 36:29 | 1.424 | 611.73 | 1.414 | 600 | 45:32 | 1.406 | 590.22 |
| Diminished fifth | 210:36 | 1.405 | 588.27 | 1.414 | 600 | 64:45 | 1.422 | 609.78 |
| Perfect fifth | 3:2 | 1.500 | 701.96 | 1.498 | 700 | 3:2 | 1.500 | 701.96 |
| Minor sixth | 27:34 | 1.580 | 792.18 | 1.587 | 800 | 8:5 | 1.600 | 813.69 |
| Major sixth | 33:24 | 1.688 | 905.87 | 1.682 | 900 | 5:3 | 1.667 | 884.36 |
| Minor seventh | 24:32 | 1.778 | 996.09 | 1.782 | 1000 | 7:4 | 1.750 | 968.83 |
| Harmonic minor seventh |  |  |  |  |  | 16:9 | 1.778 | 996.09 |
| Grave minor seventh |  |  |  |  |  | 9:5 | 1.800 | 1017.60 |
| Major seventh | 35:27 | 1.898 | 1109.78 | 1.888 | 1100 | 15:8 | 1.875 | 1088.27 |
| Octave | 2:1 | 2.000 | 1200.00 | 2.000 | 1200 | 2:1 | 2.000 | 1200.00 |