

1067-Z1-1923 **John F. Bukowski*** (bukowski@juniata.edu), Department of Mathematics, Juniata College,
1700 Moore Street, Huntingdon, PA 16652. *How Christiaan Huygens Tuned the Musical Scale.*

The tuning of the intervals in the musical scale has a long history dating back to the Pythagoreans. Several seventeenth-century mathematicians proposed different approaches to resolving the inherent difficulties in tuning the musical scale. We will see how Christiaan Huygens used logarithms to divide the octave into a 31-tone scale, and we will compare his tuning to other tunings of the scale. (Received September 22, 2010)