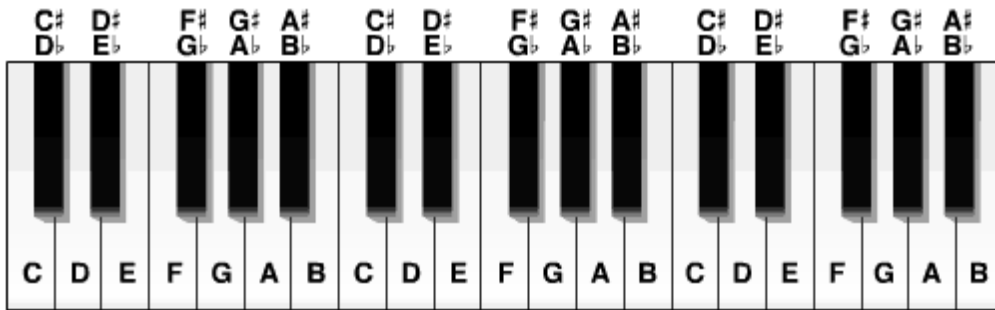


Mathematics in Music
Exercises

- Using the pattern /formula used to find the major and the image of the keyboard, find the major scale for note D. The formula is 2 2 1 2 2 2.



- Draw 2 bars of notes that will work for a time signature of 4/4 timing. Write the math sequence of the notes you used to complete a bar of music.

Example:



The math sequence will be $1+1+1+1=4$



- If a note has a frequency value of 165Hz and a different note has a frequency value of 220Hz, what is the ratio of these two notes?
- If a note has a frequency value of 110Hz and a different note has a frequency value of 220Hz, what is the ratio of these two notes?
- If a note has a frequency value of 330Hz and a different note has a frequency value of 220Hz, what is the ratio of these two notes?