Music has supereven numbers...

These are all the A's you can hear.

1760 Hz = $64 \times 27.5$ Hz

880 Hz = $32 \times 27.5$ Hz

440 Hz = $16 \times 27.5$ Hz

220 Hz = $8 \times 27.5$ Hz
When you hear a sound, your ear is picking up air vibrating very quickly. The pitch you hear is determined by how many times the air goes back and forth every second--this is called the frequency and it is measured in Hz, or cycles per second.

\[ 110 \text{ Hz} = 4 \times 27.5 \text{ Hz} \]

\[ 55 \text{ Hz} = 2 \times 27.5 \text{ Hz} \]

27.5 Hz