

SOLVING AND GRAPHING LINEAR INEQUALITIES

► *How are sounds produced?*



CHAPTER

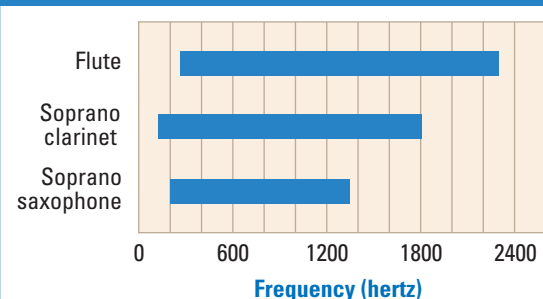
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APPLICATION: Music

Musical instruments produce vibrations in the air that we hear as music. Not all instruments produce these vibrations in the same way, and different instruments produce sounds in different frequencies.

A flute player blows across an opening in the flute, which causes the air inside to vibrate. A clarinet or saxophone player blows on a wooden reed whose vibrations cause the air inside to vibrate.

Frequency Ranges of Instruments



Think & Discuss

1. Estimate the frequency range of each instrument.
2. Which of these instruments has the greatest frequency range?
3. Estimate the frequency range that a flute can play that a soprano clarinet cannot.

Learn More About It

You will write inequalities to describe frequency ranges in Exercises 66 and 67 on p. 338.



APPLICATION LINK Visit www.mcdougallittell.com for more information about music.

