

Honors Chemistry Review Problems

1. What is the wavelength of X rays having a frequency of 4.80×10^{17} Hz?
2. A helium-neon laser emits light with a wavelength of 633 nm. What is the frequency of this light?
3. An FM radio station broadcasts at a frequency of 98.5 MHz. What is the wavelength of the station's broadcast signal?
4. Calculate the energy of a gamma ray photon whose frequency is 5.02×10^{20} Hz.
5. What is the difference in energy between a photon of violet light with a frequency of 6.8×10^{14} Hz and a photon of red light with a frequency of 4.3×10^{14} Hz?
7. Calculate the energy of a photon of ultraviolet light that has a wavelength of 49.0 nm.
8. Orange light has a frequency of 4.8×10^{14} Hz. What is the energy of one quantum of orange light?
9. New-generation cordless phones use a 9.00×10^2 MHz frequency and can be operated up to 60.0 m from their base. How many wavelengths of the electromagnetic waves can fit between your ear and a base 60.0 m away?
10. The highest *directly* measured frequency is 5.20×10^{14} Hz, corresponding to one of the transitions in iodine-127. How many wavelengths of electromagnetic waves with this frequency could fit across a dot on a book.
(Assume the dot is 2.00×10^{-4} m in diameter.)

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Mcps Honors Chemistry Review 2015 Bcrs Answers

Judd E. Hollander



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