

- ____ 31. If you pass a building with a siren sounding, as you move away from the building, the sirens will sound ____.
- a. higher
 - b. lower
 - c. the same
 - d. depends on the speed
- ____ 32. A particle of electromagnetic radiation is called a ____.
- a. proton
 - b. nucleus
 - c. photon
 - d. broadcasting
- ____ 33. ____ rays can be used to destroy diseased tissue in a patient.
- a. Infrared
 - b. X-
 - c. Fluorescent
 - d. Gamma
- ____ 34. Which light wave has the longest wavelength and the lowest frequency?
- a. yellow
 - b. red
 - c. blue
 - d. violet
- ____ 35. Which light wave has the shortest wavelength and the highest frequency?
- a. yellow
 - b. red
 - c. blue
 - d. violet
- ____ 36. Which action must occur first in the process of producing an electromagnetic wave?
- a. the electric field changes
 - b. a charged particle vibrates
 - c. the magnetic field changes
 - d. the field around a charged particle vibrates
- ____ 37. Reflection of light waves from a smooth surface is ____.
- a. diffuse reflection
 - b. mirror reflection
 - c. irregular reflection
 - d. regular reflection
- ____ 38. If light waves change speed when they pass from one medium into another, the light will be ____.
- a. diffused
 - b. reflected
 - c. refracted
 - d. separated
- ____ 39. Strawberries reflect light waves of which of the following wavelengths?
- a. red wavelengths
 - b. yellow wavelengths
 - c. blue wavelengths
 - d. purple wavelengths
- ____ 40. Which is the most important source of electromagnetic waves for Earth?
- a. the Moon
 - b. humans
 - c. fire
 - d. the Sun