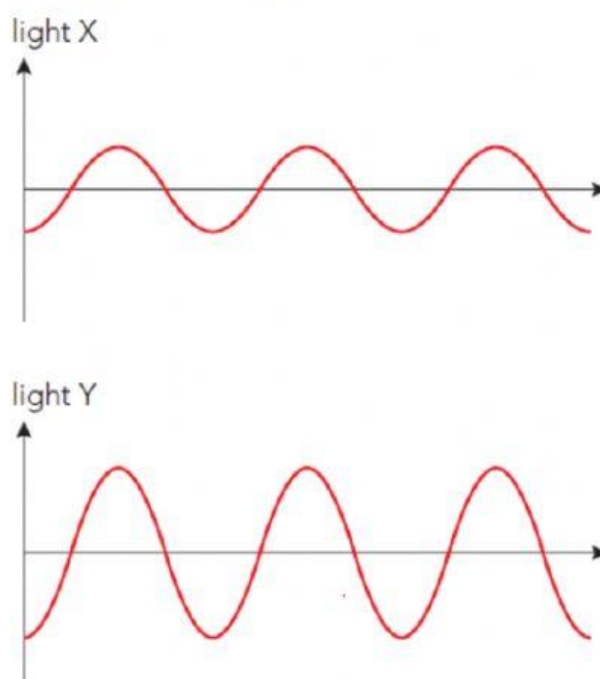


QUIZ 1

Describing Waves

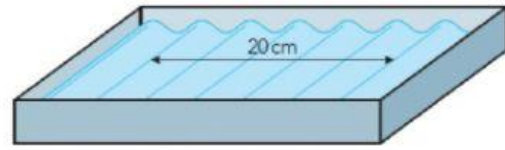
- 1 Copy and complete the following sentences.
 - a A wave transfers _____ from place to place without transferring _____.
 - b In a _____ wave the vibrations are at right angles to the direction in which the wave travels. In a _____ wave the vibrations are back and forth along the direction of the wave.
- 2 The two waves in Figure 14.9 represent two light waves, X and Y.



Fill in the blanks with one of the words on the bracket.

- a. The two waves have _____ wavelengths. {the same / different}
- b. The two waves have _____ amplitudes. {the same / different}
- c. Light X will be _____ than light Y. {brighter / dimmer}

3. The wavelength of the ripple on the picture is _____ m.



The bar of a ripple tank vibrates 5 times per second.

- The frequency of the waves is _____ Hz.
 - The period of the waves is _____ s.
 - The speed of the wave is _____ m/s.
4. Light and sound are both types of waves. Fill in the blanks with the word on the bracket on the right.
- Light is a _____ wave. {transverse / longitudinal}
The vibrations are _____ to the direction of travel of the waves.
{parallel to / at right angel to}
These waves _____ travel through a vacuum. {can / cannot}
 - Sound is a _____ wave. {transverse / longitudinal}
The vibrations are _____ to the direction of travel of the waves.
{parallel to / at right angel to}
These waves _____ travel through a vacuum. {can / cannot}
 - Lily sees a flash of lightning and three seconds later, she hears a thunder. This happens because the speed of light is faster than sound. If the speed of sound in air is 330 m/s. The distance between Lily and the storm is _____ km.