
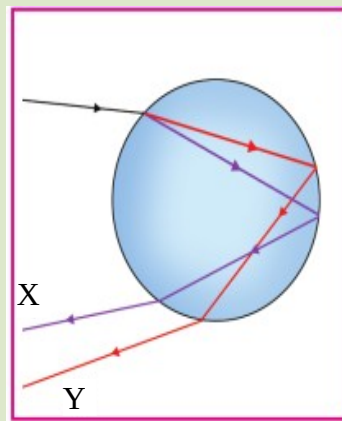




Standard 10	Subject: Physics	Medium: English	Date:11/01/2021
Class : 51	Vision and the World of Colours	Worksheet No :6.4	Link To Online Class 

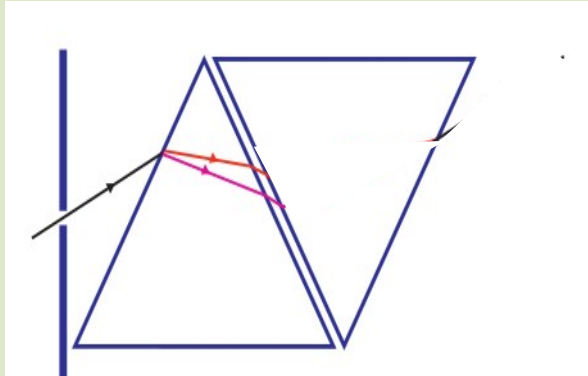
1. The given figure shows the sunlight passes through the water droplets in the atmosphere. Observe the figure and answer the following questions.



- How the rainbow is formed ?
- Which colours are marked as X and Y ?
- When sunlight passes through the water droplets in the atmosphere, what type of phenomenons of light is happening ?
- How much angle is made with line of vision by the each red ray of light emerging from the water droplets ? Which is the angle made by violet ray of light ?
- What is the colour seen at the upper edge of the rainbow ? And what colour is seen at the lower edge?

2. Sir Isaac Newton proved by the experiment that White light can be split into its component colours by dispersion, and these component colours can be recombined to form white light.

a) Complete the diagram below that shows component colours of white light can be recombined to form white light ?



- b) What happened to the light when it passed through the first prism?
- c) What happened to the light when it passed through the second prism?