



# PHYSICS

## BOOKS - BAL BHARTI

### REFRACTION OF LIGHT

#### Solved Examples

1. The absolute refractive index of water is 1.36.

What is the velocity of light in water? (velocity

of light in vacuum  $3 \times 10^8 m / s$ )



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2. Light travels with a velocity  $1.5 \times 10^8$  m/s in a medium. On entering second medium its velocity becomes  $0.75 \times 10^8$  m/s. What is the refractive index of the second medium with respect to the first medium?



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**Exercise**

## 1. Solve the following examples

If the speed of light in a medium is  $1.5 \times 10^8 \text{ m/s}$ , what is the absolute refractive index of the medium ?



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2. If the absolute refractive indices of glass and water are  $3/2$  and  $4/3$  respectively, what is the refractive index of glass with respect to water?



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