

- 7. A ray of light passes from water into benzene. If the angle of incidence is 40°, what is the angle of refraction?
- 8. Calculate the speed of light in water at 20° C. $N = \frac{C}{V} + \frac{C}{S_0} = \frac{3 \times 10^8 \text{ m/s}}{4 \times 3} \frac{2.25 \times 10^8 \text{ m}}{3}$
 - 9. A beam of light traveling in air passes into a slab of transparent material. If the angle of incidence is 40° and the angle of refraction is 25°, determine what the material is.

