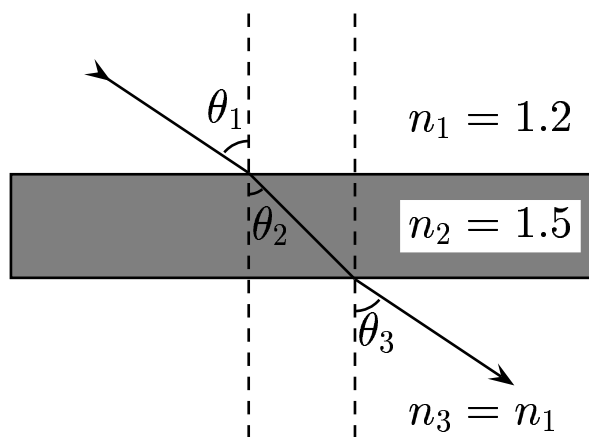


A light ray passes through a slab with index of refraction $n_2 = 1.5$, which is submerged in a liquid with index of refraction $n_1 = n_3 = 1.2$.



Compare θ_3 with $\theta_1 = 30^\circ$.

- A) $\theta_3 > 30^\circ$
- B) $\theta_3 = 30^\circ$
- C) $\theta_3 < 30^\circ$

Based on Snell's law and the set up, $n_1 \sin \theta_1 = n_2 \sin \theta_2 = n_3 \sin \theta_3$.
Since $n_3 = n_1$, so $\theta_3 = \theta_1$.

Answer **B**.