

**Answer on Question #47008, Physics, Optics**

The speed of light in glass is approximately ----- that in air  
100 times faster than  
100 times slower than  
50 per cent faster than  
**33 percent slower than**

By definition, refractive index is:

$$n = \frac{c}{v}$$

Where  $c$  – is speed of light in vacuum,  $v$  – is speed of light in medium.

$$v = \frac{c}{n} = \frac{c}{1.5} = \frac{2}{3}c \approx 0.67c$$

So, it's approximately **33%** slower.