

## Answer on question #56084, Physics / Other

**Question** How long does it take light to travel from the Earth to the Moon? The speed of light is  $2.998 \times 10^5$  km/s and the Moon is  $3.844 \times 10^5$  km away from Earth, on average.

**Solution** Time of travel is

$$t = \frac{S}{c} = \frac{3.844 \times 10^5}{2.988 \times 10^5} \approx 1.3 \text{ s}$$