


Feb 28

speed of Light

186,000  $\frac{\text{miles}}{\text{sec}}$

Earth circumference ?



circumference =  $\pi d$

25,132.74

$\approx$  25,000 mi

Light goes around the Earth 7.44 Times in one sec.

Sunlight takes this much time to reach us- \_\_\_\_\_

93,000,000 mi  $\frac{186,000 \text{ mi}}{\text{SEC}}$

Speed =  $\frac{\text{distance}}{\text{Time}}$

Time =  $\frac{\text{distance}}{\text{speed}} = \frac{93,000,000 \text{ mi}}{186,000 \frac{\text{mi}}{\text{sec}}}$

500 SEC

8.33 min

To the moon and back

250,000 mi

Round Trip ? 500,000 mi

$\frac{500,000}{186,000} = 2.69 \text{ sec}$