





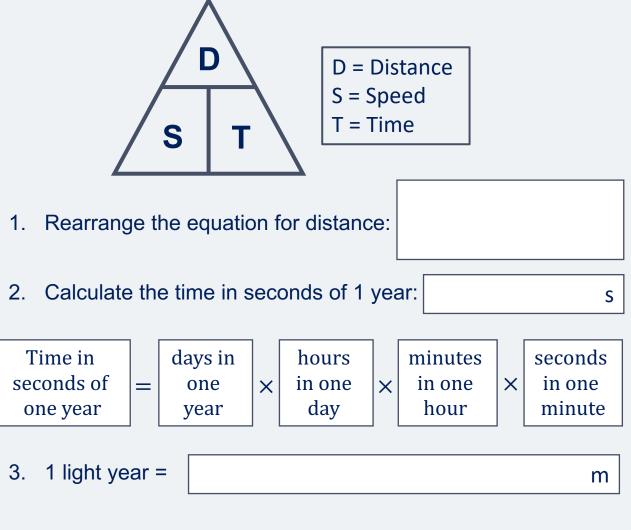


Distances to objects in space are very, very large. The nearest star (excluding the Sun), Alpha Centauri, is 41.32 trillion km, or 41,320,000,000,000 km!!

Therefore, astronomers use a **light-year** unit, which is the distance that light can travel in a year.

The speed of light is almost **300,000,000 (3 x 10⁸) m/s**.

Knowing this, we can calculate the distance of a light year.



4. How many light years away is Alpha Centauri?

lyr