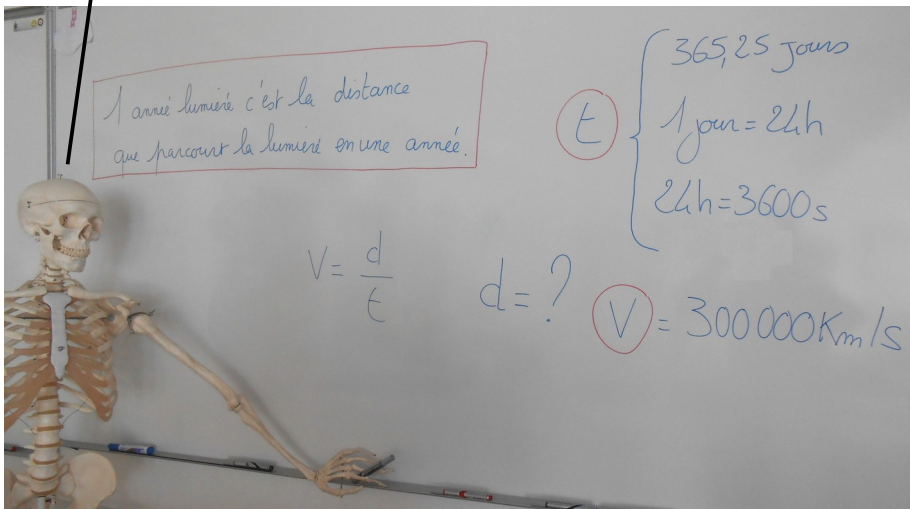


How to convert 1 **ly** into a distance in **m** ?

You just have to multiply
the **speed of light** (in m/s) times the number of **seconds** in a year.



In a year there is :

$$365,25 \times 24 \times 60 \times 60 = 31557600 \text{ s}$$

365,25 days in a year 24 hours a day 60 min per h 60 s per min

Then :

$$1 \text{ ly} = 3 \times 10^8 \times 31557600 = 9,46728 \times 10^{15} \text{ m}$$

speed of light (in m/s)