In the statement, (it is said that) we can read: "As defined by the International Astronomical Union (IAU), the light-year is the product of the Julian year and the speed of light."

Here we know that a light-year is equal to a Julian year, which is 365.25 days multiplied by the speed of light which is 299,792,458 meters per second.

First we have to put everything in the same unity¹. So 365.25 days is equivalent to 365.25 multiplied by 24 (because there is 24 hours in a day) then multiplied by 3600 (there (is) are 3600 seconds in an hour). It gives us 31,557,600 seconds.

Now to (respond) answer (to) the question, which is: "How many kilometers is a light year" we have to multiply 31,557,600 by 2599,792,458. It gives us 9,460,730,472,580,800 meters per year. So now we know how many meters there is in a light-year. But we need the result in kilometers so we divide it by 1000 and we are left with 9,460,730,472,580. We can also round up this result to approximately 10 to the power of 12 or one trillion.

¹We have to make units match, so whe must calculate how many seconds is a year.