

SOLAR SYSTEM

1. Complete the following table about distances of planets from Sun.

Distance	Explanation
Astronomical Unit (A.U.)	Average distance between _____ and the Sun which is about 93 million miles or _____ kilometres.
Light Year (ly)	The distance of _____ travels in _____.

2. Calculate the distance of following planets from Sun in astronomical unit (A.U) and light year (ly) based on formula given.

$$\text{Distance in A.U} = \frac{\text{Distance in km}}{1.5 \times 10^8 \text{ km}}$$

$$\text{Distance in ly} = \frac{\text{Distance in km}}{9.5 \times 10^{12} \text{ km}}$$

- (a) The distance of Mercury from Sun in km is $5.79 \times 10^7 \text{ km}$

In astronomical unit (A.U)
In light year (ly)

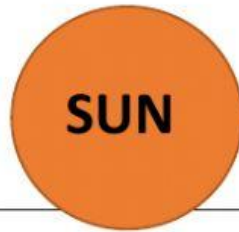
(b) The distance of Mercury from Sun in km is $1.08 \times 10^8 \text{ km}$

In astronomical unit (A.U)

In light year (ly)

3. Rearrange the following planets in the solar system sequentially.

Mars	Mercury	Jupiter	Earth	Saturn	Uranus	Neptune	Venus
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