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 $5.79\ x\ 10^{7} km$

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

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(b) The distance of Mercury from Sun in km is $1.08\ x\ 10^8 km$

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



1.
2.
3.
4.
5.
6.
7.
8.

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