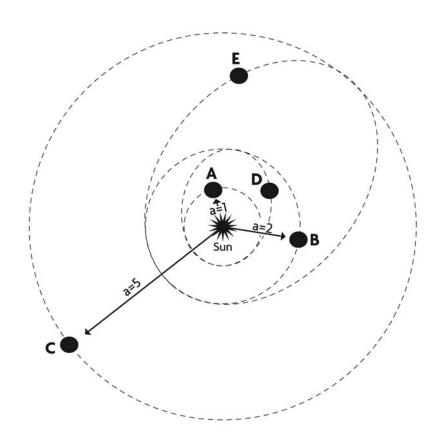
## Astronomy Ranking Task: Kepler's Laws - Orbital Motion

## Exercise #3

**Description:** The figure below shows a star and five orbiting planets (A - E). Note that planets A, B and C are in perfectly circular orbits. In contrast, planets D and E have more elliptical orbits. Note that the closest and farthest distances for the elliptical orbits of planets D and E happen to match the orbital distances of planets A, B, and C as shown in the figure.



Ranking Instruct	tions: Rank the	orbital p	eriod (f	rom long	gest to sh	ortest) of the planets.
Ranking Order:	Longest 1	2	3	4	5	Shortest
Or, the orbital per mark).	iods of the plane	ts would	l all be t	he same		(indicate with check
Carefully explain your reasoning for ranking this way:						