## Astronomy Ranking Task: Parallax

## Exercise #1

**Description:** The table below shows distances for six fictitious stars, lettered A through F.

Star	Distance (pc)
Α	1.38
В	$9.20 \times 10^{-6}$
С	0.00422
D	132
E	237
F	$4.84 \times 10^{5}$

A. Ranking instructions: Rank the distances of the stars.
Ranking Order: Greatest 1 2 3 4 5 6 Least
Or, the distance to each star is the same (indicate with a check mark)
Carefully explain your reasoning for ranking this way:
<b>B. Ranking instructions:</b> Rank the sizes of the parallax angles of the stars.
Ranking Order: Smallest 1 2 3 4 5 6 Largest
Or, the parallax angles of the stars are all the same (indicate with a check mark)
Or, there is not enough information to determine the stars' parallaxes (indicate with a check mark)

C. Ranking instructions: Rank how bright the stars appear.
Ranking Order: Brightest 1 2 3 4 5 6 Faintest
Or, the stars all appear the same brightness (indicate with a check mark)
Or, there is not enough information to determine the brightness (indicate with a check mark)
Carefully explain your reasoning for ranking this way:
<b>D. Ranking instructions:</b> Rank how much the stars appear to shift on the sky.
Ranking Order: Least 1 2 3 4 5 6 Most
Or, the stars each appear to shift by the same amount (indicate with a check mark)
Or, there is not enough information to determine the apparent shifts of the stars (indicate with a check mark)
Carefully explain your reasoning for ranking this way: