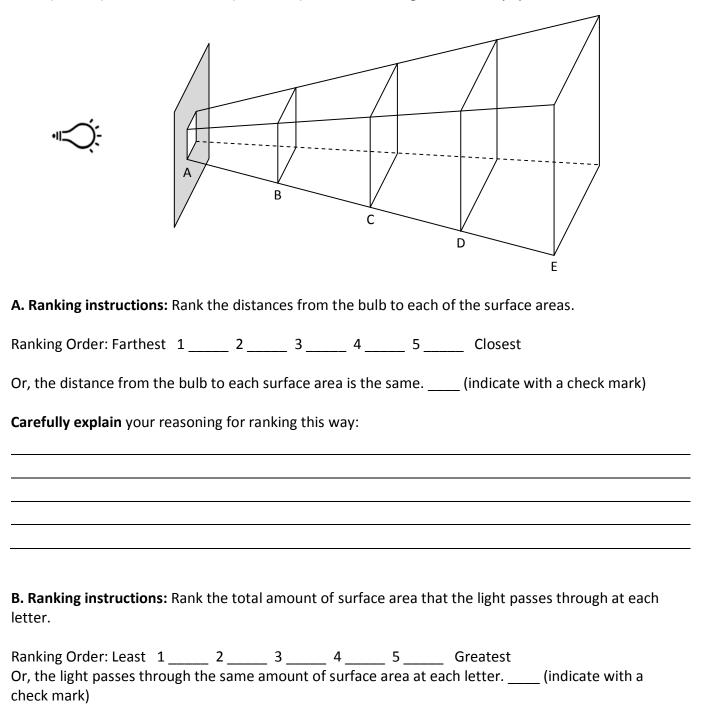
## Astronomy Ranking Task: Inverse Square Law

## Exercise #1

**Description:** The diagram below illustrates the path of light as it shines through a hole (area A) cut in a mask (shaded). The surface areas (unshaded) marked A through E are evenly spaced from the bulb.



Carefully	<b>explain</b> your	reasoning for	ranking this way:
		1000011110101	

C. Ranking instructions: Ra	ank the am	ounts of	light pas	sing throu	gh each surface area.	
anking Order: Least 1	2	3	4	5	Most	
۲, the same amount of li	sht passes	through	each surf	ace area	(indicate with a check	mark)
Carefully explain your rea	soning for	ranking t	his way:			
<b>D. Ranking instructions:</b> R he side with the bulb.	ank how b	right eac	h surface	area wou	ld appear to an observer sta	anding on
Ranking Order: Brightest	12	3	4	5	Faintest	
Dr, all the surface areas w	ould appea	ir the sar	ne bright	ness	_ (indicate with a check mar	k)
Carefully explain your reas	soning for	ranking t	his way:			