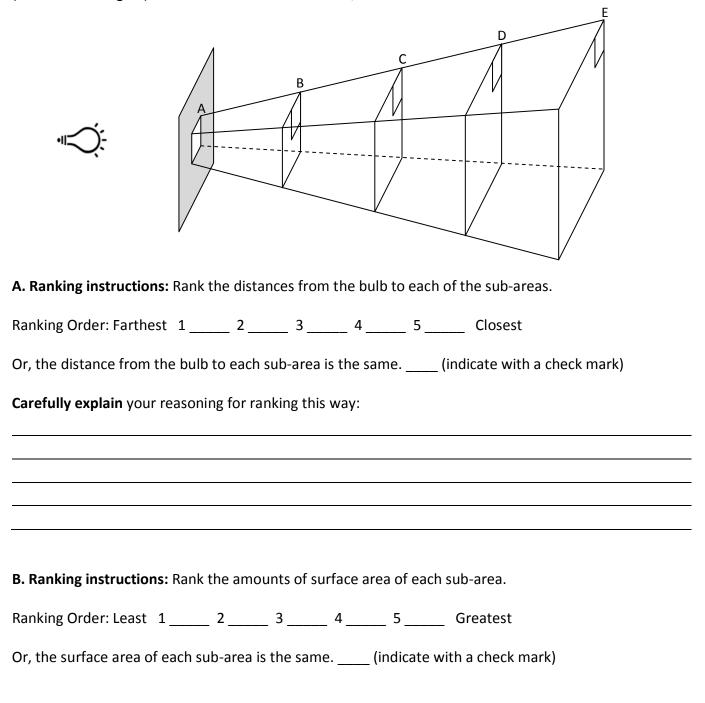
Astronomy Ranking Task: Inverse Square Law

Exercise #2

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) are evenly spaced from the bulb. The tiny "sub-areas" (labeled B through E) are the same surface area as A; A is its own "sub-area".



Carefully explain your reasoning for ranking this way:
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		a succession of	liebt or a	-:			
anking Order: Least 1_				-	-		
)r, the same amount of li	giit passes	through		area	(maid	ate with a check mark)	
Carefully explain your rea	soning for	ranking t	his way:				
D. Ranking instructions: Fide with the bulb.	Rank how b	right eac	h sub-are	a would	appear	to an observer standing on	th
Ranking Order: Brightest	12	3	4	5	;	Faintest	
Dr, all the sub-areas woul	d appear th	ne same k	orightnes	s (i	ndicate	with a check mark)	
Carefully explain your rea	soning for	ranking t	his wav:				
		i u i iking t	ins way.				