

Answer id	student	1 st answer choice	Explanation	2nd answer choice	Shown Explanations	Chosen Explanation
a ₂₉	s ₂₉	...	...	...	...	...
a ₃₀	s ₃₀	D (right)	e ₃₀ = " <i>I think the intensity of the light is proportional to the diameter of the lens.</i> "	D (right)	Subset of other explanations for $B = [e_4, e_7, e_{25}]$ Subset of explanations for $A = [e_1, e_3, e_{11}, e_{29}]$	e ₂₅ = " <i>The image will still form as usual, because all it takes is any two rays to be focused at the screen. But since half are blocked, it will be dimmer.</i> "
a ₃₁	s ₃₁	...	...	...	...	...

(a)



Pair id	e _{win}	e _{lose}
...
p _{29,7}	...	...
*p _{30,1}	e ₂₅	e ₃₀
p _{30,2}	e ₂₅	e ₄
p _{30,3}	e ₂₅	e ₇
p _{30,4}	e ₂₅	e ₁
p _{30,5}	e ₂₅	e ₃
p _{30,6}	e ₂₅	e ₁₁
p _{30,7}	e ₂₅	e ₂₉
p _{31,1}	...	...
...

(b)



e _{id}	Rank Score
...	...
e ₄	2.17
e ₂₅	0.25
e ₇	-0.3
e ₃	-1
e ₁₁	-1.8
...	...

(c)