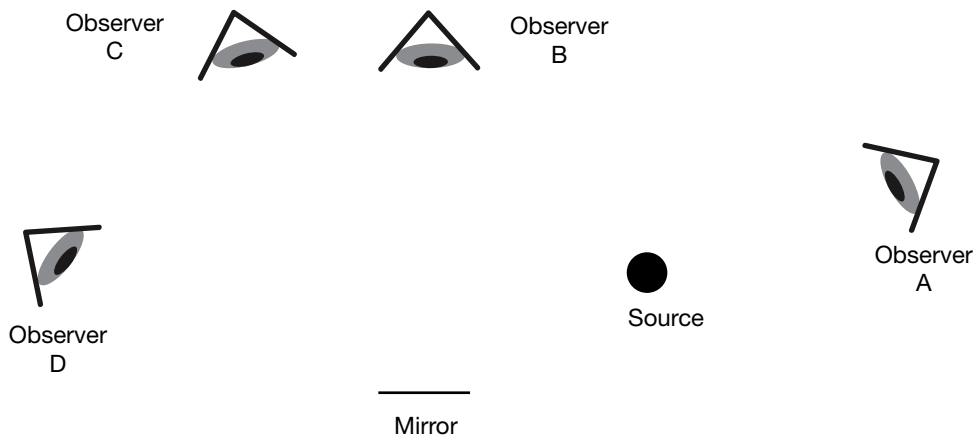


(b) By referring to the two diagrams, explain why the black clothing will warm up more than the white clothing.

**S3:** Below is a side-view diagram showing a light source, a small mirror, and four observers looking towards the mirror.



(a) Which of the observers, if any, would see the reflection of the source in the mirror? Support your answer by drawing a light ray diagram above.

(b) What would the other observers see when looking at the mirror? Why?