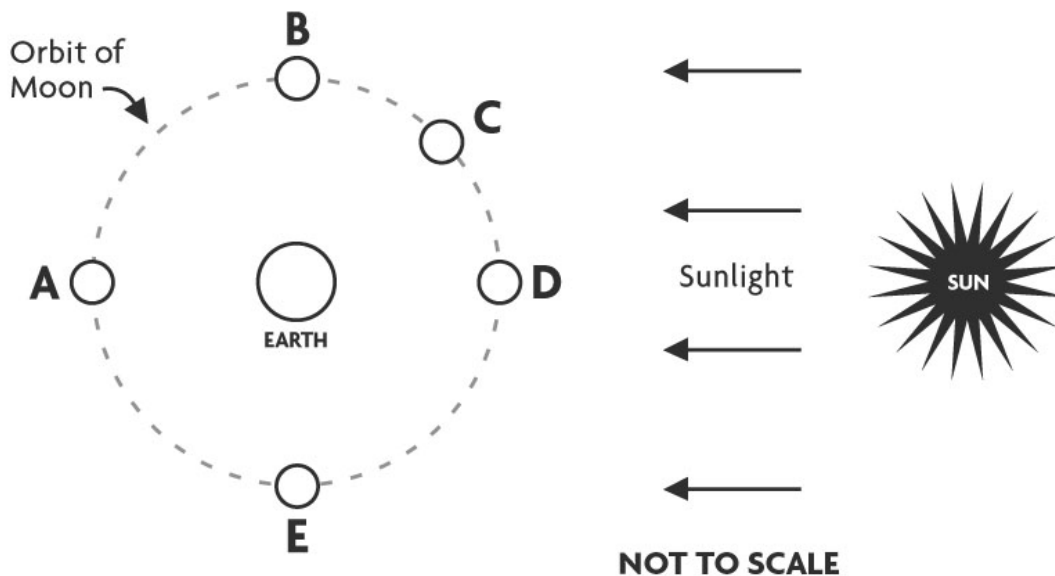


# Astronomy Ranking Task: Phases of the Moon

## Exercise #1

**Description:** The figure below shows a “top view” of the Sun, Earth, and five different positions (A - E) of the Moon during one orbit around Earth. Note that the distances shown for the Sun to Earth and for Earth to the Moon are not drawn to scale.



**Ranking Instructions:** Rank (from greatest to least) the amount of the Moon’s entire surface that is illuminated by sunlight for the five positions (A-E) shown.

**Ranking Order:** Greatest 1 \_\_\_\_ 2 \_\_\_\_ 3 \_\_\_\_ 4 \_\_\_\_ 5 \_\_\_\_ Least

Or, the amount of the entire surface of the Moon illuminated by sunlight is the same at all the positions. \_\_\_\_ (indicate with check mark).

**Carefully explain** your reasoning for ranking this way:

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