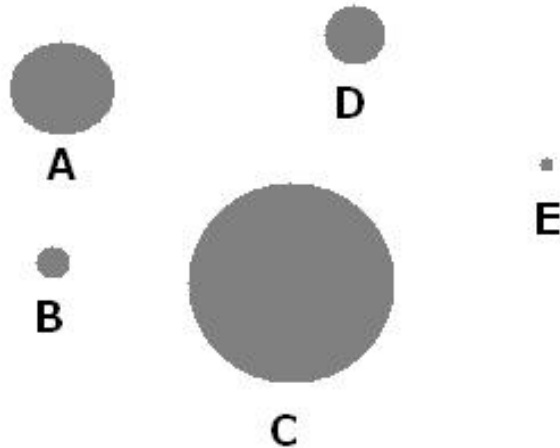


# Astronomy Ranking Task: Stellar Evolution

## Exercise #1

**Description:** The figures below show main sequence stars of various sizes .



**A) Ranking Instructions:** Rank, from least to most, the mass of the stars:

Least 1\_\_\_\_, 2\_\_\_\_, 3\_\_\_\_ 4\_\_\_\_, 5\_\_\_\_ Most

All the stars would have the same mass: \_\_\_\_\_ (indicate with check mark).

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

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**B) Ranking Instructions:** Rank, form hottest to coolest, the temperature of the stars:

Hottest 1\_\_\_\_, 2\_\_\_\_, 3\_\_\_\_ 4\_\_\_\_, 5\_\_\_\_ Coolest

All the stars would have the same temperature: \_\_\_\_\_ (indicate with check mark).

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

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**C) Ranking Instructions:** Rank, from greatest to least, the luminosity of the stars:

**Greatest** 1 \_\_\_\_, 2 \_\_\_\_, 3 \_\_\_\_, 4 \_\_\_\_, 5 \_\_\_\_ **Least**

All the stars would have the same luminosity: \_\_\_\_\_ (indicate with check mark).

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

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**D) Ranking Instructions:** Rank, from longest to shortest, the total main sequence lifetime of the stars:

**Longest** 1 \_\_\_\_, 2 \_\_\_\_, 3 \_\_\_\_, 4 \_\_\_\_, 5 \_\_\_\_ **Shortest**

All the stars would have the same main sequence lifetime: \_\_\_\_\_ (indicate with check mark).

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

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