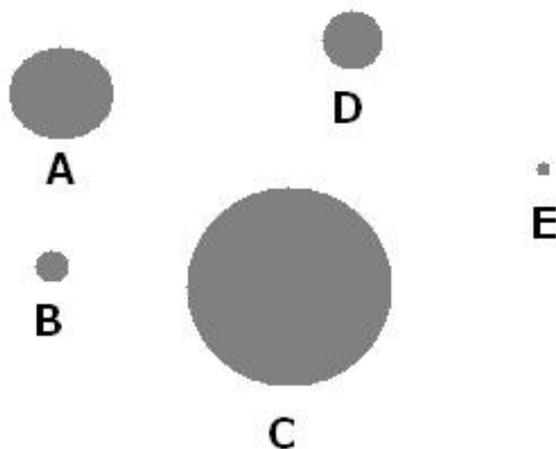


Astronomy Ranking Task: Star Evolution

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:

Ranking Order: 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:

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

Ranking Order: 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:

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

Ranking Order: 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:

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

Ranking Order: 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:
