Astronomy Ranking Task:
Gravity

Exercise #6

Description: The table below shows the masses and distances (expressed in arbitrary units) between four different pairs of stars (Cases A – D).

Case	Mass of star #1	Distance between star #1 and star #2	Mass of star #2
A	4	2	2
B	2	2	8
C	8	4	4
D	1	3	5

Ranking Instructions: Rank (from greatest to least) the strength of the gravitational force exerted between the pairs of stars in cases A - D.

Ranking Order: Greatest 1 _____ 2 _____ 3 _____ 4 _____ Least

Or, the strength of the gravitational force exerted between each pair of stars is the same. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

_____
_____
_____
_____