Astronomy Ranking Task:  
Gravity

Exercise #1

**Description:** The figure below shows several objects (A – D) of different masses located on the surface of the earth.

![Diagram of objects A, B, C, D on a surface]

**A. Ranking Instructions:** Rank (from greatest to least) the strength of the gravitational force exerted by Earth on each of the objects (A – D).

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

Or, the gravitational force exerted on each object is the same. __________ (indicate with a check mark)

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

**B. Ranking Instructions:** Rank (from greatest to least) the strength of the gravitational force exerted by each of the objects A – D on Earth.

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

Or, the gravitational force exerted by each object is the same. __________ (indicate with a check mark)

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