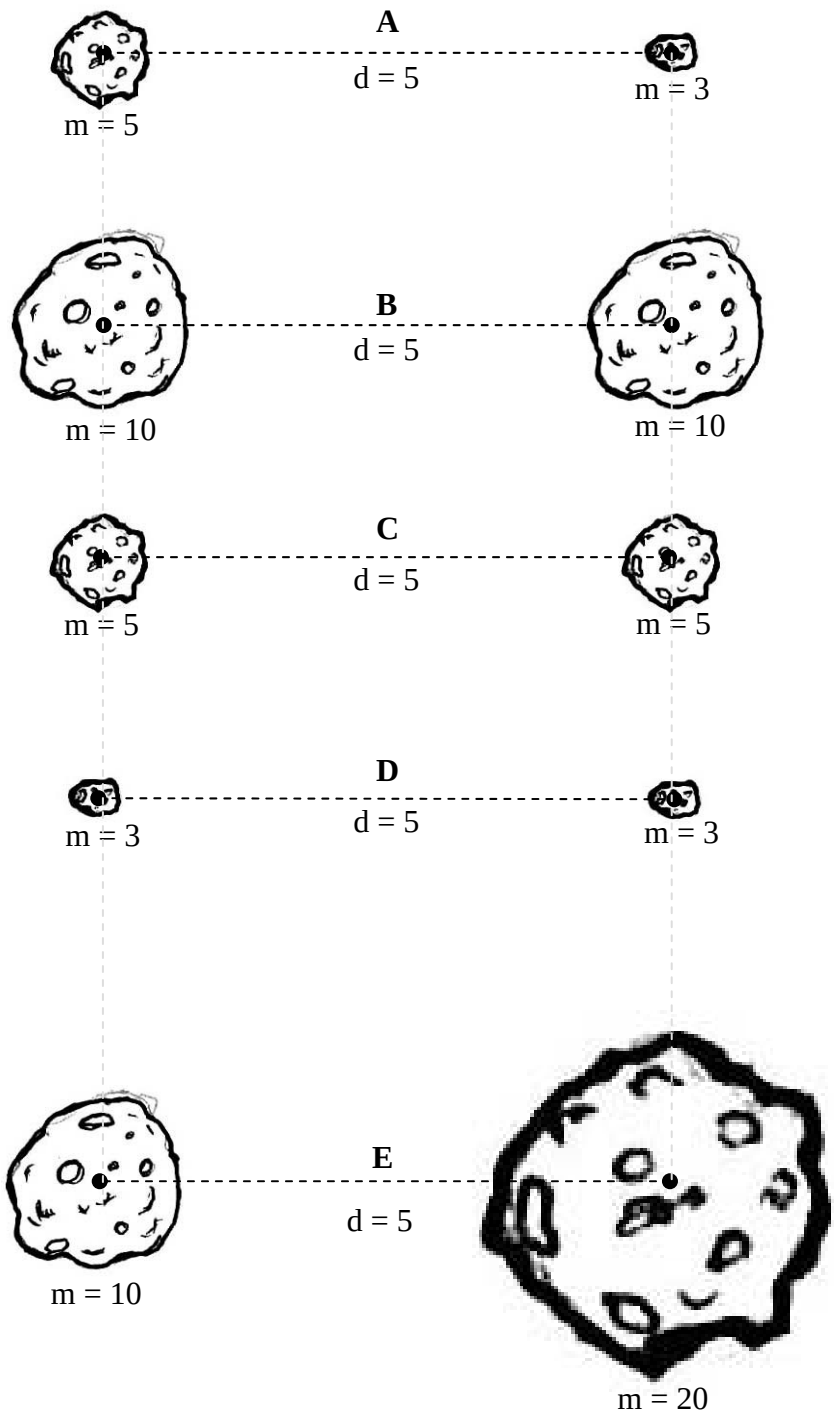
Astronomy Ranking Task:
Gravity

Exercise #2

Description: The figures below (A – E) each show two rocky asteroids with masses (m), expressed in arbitrary units, separated by a distance (d), also expressed in arbitrary units.



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A. Ranking Instructions: Rank (from greatest to least) the strength of the gravitational force exerted on the asteroid located on the left side of each pair.

Ranking Order: Greatest 1 ____ 2 _____ 3 _____ 4 ____ 5 ____ Least

Or, the strength of the gravitational force exerted in each case 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 on the asteroid located on the right side of each pair.

Ranking Order: Greatest 1 ____ 2 _____ 3 _____ 4 ____ 5 ____ Least

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

Carefully explain your reasoning for ranking this way:

_____
_____
_____
_____

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