

Astronomy Ranking Task: Momentum

Exercise #1

Description: All of the following are typical examples of the named objects and have no unusual qualities.

- A. baseball
- B. bowling ball
- C. ping pong ball
- D. small metal BB

A. Ranking instructions: If all of these objects are traveling with the same speed, rank their amounts of momentum.

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

Or, all of the objects have the same amount of momentum. _____ (indicate with a check mark)

Or, there is not enough information to determine this. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

B. Ranking instructions: If all of these objects have the same amounts of momentum, rank the speeds with which they must be moving.

Ranking Order: Fastest 1 _____ 2 _____ 3 _____ 4 _____ Slowest

Or, all of the objects are traveling with the same speed. _____ (indicate with a check mark)

Or, there is not enough information to determine this. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:
